

**Table 1. Total Energy Supply and Disposition Summary (1 of 2)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Production																										
Crude Oil & Lease Condensate	13.66	13.23	12.75	12.70	12.50	12.11	11.95	11.82	11.71	11.60	11.52	11.52	11.56	11.64	11.76	11.88	12.04	12.16	12.29	12.51	12.62	12.72	12.74	12.74	-0.2%	
Natural Gas Plant Liquids	2.57	2.49	2.50	2.53	2.47	2.46	2.49	2.50	2.56	2.63	2.71	2.77	2.83	2.92	2.97	3.03	3.09	3.15	3.23	3.26	3.30	3.33	3.35	3.37	1.4%	
Dry Natural Gas	19.43	19.40	18.88	19.63	19.20	19.21	19.50	19.66	20.18	20.77	21.44	21.93	22.46	23.24	23.69	24.21	24.72	25.32	25.98	26.21	26.58	26.89	27.07	27.26	1.6%	
Coal	23.28	23.89	23.48	23.69	24.22	24.66	25.15	25.63	25.82	25.94	26.05	26.24	26.08	26.07	26.13	26.24	26.31	26.39	26.61	26.72	26.91	27.02	27.23	27.43	0.6%	
Nuclear Power	6.71	7.19	7.46	7.35	7.37	7.38	7.37	7.27	7.20	7.01	6.88	6.86	6.87	6.70	6.53	6.45	6.26	5.97	5.45	5.23	4.92	4.74	4.65	4.63	-2.0%	
Renewable Energy 1/	7.00	6.67	6.55	6.68	6.80	7.00	7.00	7.02	7.08	7.18	7.20	7.31	7.38	7.45	7.51	7.56	7.61	7.70	7.78	7.88	7.88	7.96	7.98	8.06	0.9%	
Other 2/	0.66	0.57	1.47	0.59	0.58	0.60	0.64	0.67	0.68	0.70	0.73	0.74	0.76	0.70	0.71	0.71	0.71	0.72	0.71	0.71	0.71	0.72	0.73	0.72	1.2%	
Total	73.30	73.46	73.08	73.17	73.14	73.42	74.10	74.57	75.24	75.83	76.53	77.37	77.93	78.71	79.31	80.09	80.73	81.42	82.05	82.52	82.92	83.37	83.74	84.23	0.6%	
Imports																										
Crude Oil 3/	17.86	18.90	19.02	19.94	20.36	21.28	21.92	22.57	23.03	23.58	23.98	24.22	24.22	24.19	24.10	24.04	23.92	23.91	23.87	23.73	23.69	23.71	23.75	23.76	1.0%	
Petroleum Products 4/	3.89	3.99	4.01	4.04	4.43	4.53	4.66	4.79	4.87	4.92	5.01	5.17	5.38	5.71	5.94	6.32	6.71	7.13	7.52	7.85	8.22	8.57	8.98	9.44	4.0%	
Natural Gas	3.06	3.37	3.68	3.94	4.17	4.33	4.48	4.59	4.67	4.74	4.80	4.85	4.90	4.96	5.01	5.08	5.14	5.21	5.30	5.37	5.42	5.47	5.52	5.54	2.3%	
Other Imports 5/	0.54	0.59	0.78	0.77	0.83	0.95	0.99	0.98	0.99	1.03	1.00	0.96	0.94	0.90	0.91	0.87	0.88	0.88	0.90	0.92	0.94	0.97	0.99	0.98	2.3%	
Total	25.34	26.85	27.49	28.69	29.79	31.09	32.05	32.93	33.57	34.27	34.79	35.19	35.45	35.75	35.96	36.31	36.65	37.13	37.58	37.87	38.27	38.72	39.23	39.72	1.8%	
Exports																										
Petroleum 6/	2.09	1.94	2.00	1.94	1.93	1.94	2.01	2.06	2.03	2.08	2.10	2.09	2.04	2.03	2.02	2.06	2.08	2.13	2.17	2.21	2.28	2.32	2.32	2.33	0.8%	
Natural Gas	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.31	0.32	0.33	0.34	0.35	0.35	0.36	0.36	0.36	0.36	3.5%	
Coal	2.19	2.05	1.60	1.60	1.59	1.59	1.59	1.60	1.61	1.61	1.64	1.67	1.60	1.63	1.58	1.60	1.51	1.48	1.44	1.46	1.46	1.45	1.45	1.46	-1.5%	
Total	4.45	4.16	3.79	3.72	3.72	3.74	3.82	3.89	3.88	3.94	4.01	4.03	3.93	3.95	3.91	3.97	3.92	3.95	3.96	4.02	4.10	4.13	4.13	4.15	0.0%	
Discrepancy 7/	-0.22	1.27	0.40	0.15	0.12	0.22	0.27	0.21	0.15	0.13	0.10	0.08	0.06	0.02	-0.01	-0.03	-0.06	-0.08	-0.10	-0.08	-0.08	-0.08	-0.08	-0.09	N/A	
Consumption																										
Petroleum Products 8/	36.43	37.21	37.94	37.86	38.40	38.89	39.41	40.07	40.62	41.15	41.67	42.17	42.56	43.06	43.41	43.88	44.37	44.95	45.46	45.85	46.27	46.73	47.21	47.71	1.1%	
Natural Gas	22.60	21.99	22.06	23.21	23.06	23.25	23.72	24.02	24.65	25.30	26.01	26.55	27.12	27.89	28.38	28.96	29.52	30.18	30.91	31.22	31.64	31.99	32.23	32.44	1.8%	
Coal	21.34	21.50	21.89	22.44	23.00	23.46	23.98	24.49	24.71	24.84	24.95	25.13	25.05	25.02	25.16	25.26	25.42	25.56	25.83	25.93	26.11	26.25	26.47	26.68	1.0%	
Nuclear Power	6.71	7.19	7.46	7.35	7.37	7.38	7.37	7.27	7.20	7.01	6.88	6.86	6.87	6.70	6.53	6.45	6.26	5.97	5.45	5.23	4.92	4.74	4.65	4.63	-2.0%	
Renewable Energy 1/	7.00	6.67	6.56	6.68	6.80	7.00	7.01	7.03	7.09	7.19	7.21	7.32	7.39	7.46	7.52	7.58	7.62	7.72	7.79	7.90	7.89	7.97	8.00	8.08	0.9%	
Other 9/	0.33	0.32	0.49	0.44	0.44	0.56	0.56	0.52	0.50	0.53	0.48	0.43	0.41	0.36	0.37	0.32	0.32	0.31	0.31	0.33	0.34	0.36	0.37	0.34	0.4%	
Total	94.41	94.88	96.39	97.98	99.08	100.55	102.06	103.40	104.78	106.03	107.20	108.46	109.40	110.48	111.37	112.45	113.52	114.67	115.76	116.45	117.18	118.04	118.92	119.88	1.1%	
Net Imports - Petroleum	19.65	20.95	21.03	22.05	22.86	23.87	24.58	25.30	25.88	26.42	26.88	27.30	27.56	27.87	28.02	28.30	28.55	28.91	29.22	29.37	29.63	29.96	30.40	30.87	1.8%	
Prices (1998 dollars per unit)																										
World Oil Price (dollars/bbl) 10/	18.71	12.10	17.13	24.23	23.75	23.45	23.57	23.82	24.16	24.72	25.14	25.56	25.94	26.31	26.71	27.07	27.36	27.63	27.86	27.94	27.97	28.00	28.03	28.04	3.9%	
Gas Wellhead Price(dollars/mcf)1	2.39	1.96	2.12	2.20	2.22	2.25	2.31	2.39	2.49	2.58	2.65	2.69	2.71	2.72	2.73	2.74	2.75	2.76	2.78	2.80	2.81	2.83	2.84	2.87	1.7%	
Coal Minemouth Price(dollars/ton)	18.32	17.51	16.82	15.93	15.70	15.34	15.43	15.04	14.68	14.47	14.30	14.11	13.96	13.99	13.81	13.74	13.62	13.54	13.39	13.27	13.05	12.77	12.60	12.53	-1.5%	
Average Electricity (cents / kWh)	6.9	6.7	6.6	6.6	6.5	6.3	6.3	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	-0.6%	

1/ Includes grid-connected electricity from conventional hydroelectric; wood and wood waste; landfill gas; municipal solid waste; other biomass; wind; photovoltaic and solar thermal sources; non-electric energy from renewable sources, such as active and passive solar systems, and wood; and both the ethanol and gasoline components of E85, but not the ethanol components of blends less than 85 percent. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table A18 for selected nonmarketed residential and commercial renewable energy.

2/ Includes liquid hydrogen, methanol, supplemental natural gas, and some domestic inputs to refineries.

3/ Includes imports of crude oil for the Strategic Petroleum Reserve.

4/ Includes imports of finished petroleum products, imports of unfinished oils, alcohols, ethers, and blending components.

5/ Includes coal, coal coke (net), and electricity (net).

6/ Includes crude oil and petroleum products.

7/ Balancing item. Includes unaccounted for supply, losses, gains, and net storage withdrawals.

8/ Includes natural gas plant liquids, crude oil consumed as a fuel, and nonpetroleum based liquids for blending, such as ethanol.

9/ Includes net electricity imports, methanol, and liquid hydrogen.

10/ Average refiner acquisition cost for imported crude oil.

11/ Represents lower 48 onshore and offshore supplies.

Btu = British thermal unit.

N/A = Not applicable.

Bbl = Barrel.

Mcf = thousand cubic feet.

## Table 1. Total Energy Supply and Disposition Summary Notes (2 of 2)

Kwh = Kilowatthour.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 natural gas values: Energy Information Administration (EIA), Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). 1997 coal minemouth prices: EIA, Coal Industry Annual 1997, DOE/EIA-0584(97) (Washington, DC, December 1998). Other 1997 values: EIA, Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). 1998 natural gas values: EIA, Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1998 petroleum values: EIA, Petroleum Supply Annual 1998, DOE/EIA-0340(98/1) (Washington, DC, June 1999). Other 1998 values: EIA, Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999) and EIA, Quarterly Coal Report, DOE/EIA-0121(99/1Q) (Washington, DC, August 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 2. Energy Consumption by Sector and Source (1 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Energy Consumption																									
Residential																									
Distillate Fuel	0.90	0.84	0.88	0.83	0.81	0.80	0.79	0.78	0.76	0.75	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.64	0.64	0.63	0.62	0.61	0.61	-1.5%	
Kerosene	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-1.1%	
Liquefied Petroleum Gas	0.44	0.41	0.44	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.39	0.38	0.38	0.38	0.37	-0.4%
Petroleum Subtotal	1.43	1.36	1.40	1.35	1.33	1.32	1.30	1.29	1.27	1.26	1.24	1.22	1.20	1.19	1.17	1.16	1.15	1.13	1.12	1.11	1.09	1.08	1.07	1.06	-1.1%
Natural Gas	5.12	4.61	4.93	5.04	5.06	5.10	5.13	5.18	5.20	5.24	5.28	5.35	5.38	5.44	5.47	5.53	5.56	5.60	5.64	5.70	5.72	5.77	5.81	5.86	1.1%
Coal	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-0.4%
Renewable Energy 1/	0.42	0.38	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.7%
Electricity	3.67	3.83	3.90	4.04	4.10	4.17	4.23	4.31	4.36	4.42	4.48	4.57	4.63	4.69	4.75	4.82	4.87	4.93	4.99	5.06	5.10	5.16	5.22	5.29	1.5%
Delivered Energy	10.70	10.24	10.71	10.92	10.98	11.07	11.16	11.27	11.33	11.41	11.50	11.63	11.71	11.81	11.90	12.01	12.07	12.16	12.25	12.36	12.41	12.50	12.60	12.73	1.0%
Electricity Related Losses	8.14	8.53	8.61	8.92	9.04	9.17	9.26	9.30	9.35	9.42	9.48	9.60	9.65	9.71	9.77	9.83	9.85	9.89	9.95	9.99	9.99	10.04	10.08	10.17	0.8%
Total	18.84	18.77	19.32	19.84	20.02	20.24	20.42	20.57	20.68	20.83	20.98	21.23	21.36	21.53	21.67	21.84	21.92	22.05	22.20	22.35	22.40	22.54	22.68	22.89	0.9%
Commercial																									
Distillate Fuel	0.45	0.38	0.38	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.32	0.32	-0.7%
Residual Fuel	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-0.2%
Kerosene	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.1%
Liquefied Petroleum Gas	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.8%
Motor Gasoline 2/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-0.3%
Petroleum Subtotal	0.69	0.61	0.61	0.59	0.59	0.60	0.60	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.58	0.58	0.57	0.57	0.57	-0.4%
Natural Gas	3.31	3.11	3.26	3.29	3.33	3.35	3.37	3.40	3.42	3.44	3.47	3.50	3.53	3.57	3.60	3.63	3.66	3.69	3.71	3.72	3.74	3.75	3.75	3.75	0.9%
Coal	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.9%
Renewable Energy 3/	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.0%
Electricity	3.50	3.56	3.67	3.74	3.81	3.87	3.93	3.98	4.04	4.10	4.16	4.22	4.28	4.33	4.40	4.45	4.50	4.54	4.57	4.59	4.62	4.64	4.66	4.66	1.2%
Delivered Energy	7.67	7.46	7.71	7.80	7.90	8.00	8.07	8.14	8.23	8.31	8.39	8.49	8.59	8.67	8.77	8.85	8.93	8.99	9.04	9.08	9.12	9.14	9.16	9.16	0.9%
Electricity Related Losses	7.77	7.93	8.11	8.26	8.39	8.53	8.60	8.60	8.67	8.73	8.78	8.87	8.93	8.97	9.05	9.08	9.11	9.11	9.11	9.08	9.05	9.03	8.99	8.96	0.6%
Total	15.43	15.38	15.82	16.06	16.29	16.52	16.67	16.74	16.90	17.03	17.17	17.35	17.52	17.64	17.82	17.93	18.04	18.10	18.15	18.16	18.16	18.17	18.15	18.12	0.7%
Industrial 4/																									
Distillate Fuel	1.14	1.08	1.09	1.08	1.10	1.12	1.15	1.18	1.20	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.31	1.33	1.35	1.36	1.37	1.39	1.41	1.42	1.2%
Liquefied Petroleum Gas	2.16	2.06	2.18	2.17	2.19	2.21	2.24	2.25	2.27	2.27	2.30	2.33	2.35	2.38	2.40	2.42	2.45	2.49	2.51	2.52	2.54	2.56	2.59	2.62	1.1%
Petrochemical Feedstocks	1.40	1.39	1.29	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.68	1.70	1.71	1.73	1.0%
Residual Fuel	0.30	0.27	0.28	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	-0.3%
Motor Gasoline 2/	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.28	1.4%
Other Petroleum 5/	4.11	4.11	4.30	4.45	4.48	4.48	4.49	4.54	4.58	4.59	4.63	4.64	4.66	4.67	4.69	4.71	4.74	4.78	4.82	4.82	4.84	4.87	4.92	4.95	0.8%
Petroleum Subtotal	9.30	9.12	9.36	9.43	9.52	9.61	9.73	9.86	9.99	10.06	10.17	10.24	10.30	10.37	10.43	10.53	10.64	10.76	10.86	10.90	10.97	11.05	11.15	11.25	1.0%
Natural Gas 6/	9.95	9.75	9.50	9.65	9.66	9.77	10.00	10.18	10.38	10.56	10.68	10.78	10.87	11.00	11.07	11.20	11.35	11.49	11.63	11.70	11.80	11.89	11.98	12.07	1.0%
Metallurgical Coal	0.81	0.76	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.52	-1.7%
Steam Coal	1.57	1.54	1.54	1.54	1.53	1.54	1.55	1.56	1.58	1.58	1.59	1.58	1.58	1.58	1.58	1.59	1.59	1.60	1.60	1.60	1.61	1.61	1.62	1.62	0.3%
Net Coal Coke Imports	0.02	0.07	0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.28	6.7%	
Coal Subtotal	2.39	2.36	2.37	2.37	2.37	2.39	2.41	2.43	2.43	2.43	2.43	2.43	2.41	2.41	2.40	2.40	2.40	2.41	2.41	2.41	2.41	2.41	2.41	2.42	0.1%
Renewable Energy 7/	2.03	2.08	2.13	2.14	2.18	2.21	2.25	2.28	2.31	2.34	2.36	2.39	2.41	2.43	2.45	2.48	2.51	2.54	2.57	2.59	2.62	2.64	2.67	2.69	1.2%
Electricity	3.52	3.57	3.58	3.60	3.62	3.69	3.78	3.86	3.93	3.98	4.03	4.08	4.11	4.15	4.19	4.25	4.31	4.38	4.44	4.48	4.53	4.58	4.64	4.70	1.2%
Delivered Energy	27.20	26.89	26.94	27.20	27.35	27.64	28.14	28.58	29.04	29.37	29.67	29.92	30.10	30.37	30.55	30.86	31.21	31.59	31.92	32.08	32.32	32.56	32.85	33.13	1.0%
Electricity Related Losses	7.81	7.95	7.90	7.96	7.97	8.12	8.28	8.33	8.42	8.47	8.52	8.58	8.57	8.60	8.62	8.66	8.73	8.79	8.86	8.85	8.87	8.92	8.96	9.02	0.6%
Total	35.01	34.84	34.84	35.16	35.32	35.77	36.42	36.91	37.46	37.84	38.19	38.50	38.68	38.97	39.17	39.52	39.93	40.38	40.78	40.93	41.19	41.48	41.81	42.16	0.9%

**Table 2. Energy Consumption by Sector and Source (2 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Transportation																										
Distillate Fuel	4.73	4.95	5.05	5.11	5.18	5.27	5.36	5.45	5.53	5.58	5.63	5.67	5.70	5.75	5.77	5.82	5.88	5.94	6.01	6.03	6.08	6.12	6.16	6.20	1.0%	
Jet Fuel 8/	3.31	3.36	3.46	3.54	3.64	3.74	3.88	4.02	4.14	4.29	4.41	4.55	4.67	4.81	4.91	5.05	5.18	5.33	5.46	5.58	5.70	5.84	5.97	6.09	2.7%	
Motor Gasoline 2/	15.08	15.59	15.81	16.12	16.45	16.75	16.97	17.28	17.54	17.83	18.11	18.35	18.58	18.80	18.98	19.16	19.35	19.57	19.78	19.96	20.14	20.33	20.53	20.75	1.3%	
Residual Fuel	0.73	0.65	0.67	0.69	0.71	0.72	0.75	0.77	0.80	0.82	0.84	0.87	0.90	0.92	0.94	0.97	0.99	1.02	1.05	1.07	1.09	1.12	1.15	1.17	2.7%	
Liquefied Petroleum Gas	0.04	0.05	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	4.9%		
Other Petroleum 9/	0.24	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.9%	
Petroleum Subtotal	24.13	24.89	25.35	25.83	26.35	26.87	27.35	27.92	28.42	28.94	29.42	29.88	30.28	30.73	31.06	31.45	31.86	32.33	32.77	33.13	33.50	33.90	34.29	34.70	1.5%	
Pipeline Fuel Natural Gas	0.77	0.75	0.78	0.78	0.76	0.76	0.76	0.76	0.77	0.79	0.81	0.83	0.85	0.87	0.88	0.90	0.91	0.93	0.95	0.96	0.97	0.98	0.98	0.99	1.3%	
Compressed Natural Gas	0.01	0.02	0.03	0.05	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.20	0.21	0.23	0.24	0.25	0.26	0.28	0.29	0.30	0.30	0.31	0.32	0.33	13.0%	
Renewables (E85) 10/	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	15.6%	
Methanol (M85) 11/	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	13.7%	
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Electricity	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.17	4.2%	
Delivered Energy	24.99	25.74	26.25	26.77	27.30	27.86	28.38	28.98	29.53	30.11	30.64	31.14	31.59	32.10	32.46	32.89	33.34	33.86	34.34	34.72	35.12	35.54	35.96	36.39	1.6%	
Electricity Related Losses	0.15	0.15	0.15	0.16	0.16	0.16	0.18	0.19	0.20	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.31	0.31	0.32	0.35%		
Total	25.13	25.89	26.40	26.92	27.46	28.02	28.56	29.18	29.74	30.32	30.87	31.38	31.84	32.35	32.72	33.16	33.62	34.15	34.64	35.02	35.42	35.86	36.28	36.71	1.6%	
Delivered Energy Consumption All Sectors																										
Distillate Fuel	7.22	7.25	7.41	7.39	7.45	7.55	7.66	7.76	7.85	7.91	7.96	8.00	8.01	8.06	8.08	8.13	8.19	8.27	8.33	8.36	8.41	8.45	8.50	8.55	0.8%	
Kerosene	0.14	0.16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	-0.8%	
Jet Fuel 8/	3.31	3.36	3.46	3.54	3.64	3.74	3.88	4.02	4.14	4.29	4.41	4.55	4.67	4.81	4.91	5.05	5.18	5.33	5.46	5.58	5.70	5.84	5.97	6.09	2.7%	
Liquefied Petroleum Gas	2.71	2.59	2.74	2.73	2.76	2.78	2.82	2.84	2.86	2.87	2.90	2.93	2.95	2.98	3.00	3.02	3.05	3.08	3.10	3.12	3.14	3.16	3.18	3.21	1.0%	
Motor Gasoline 2/	15.31	15.82	16.05	16.36	16.69	17.00	17.22	17.54	17.80	18.09	18.37	18.61	18.85	19.08	19.26	19.44	19.63	19.85	20.07	20.25	20.43	20.63	20.83	21.05	1.3%	
Petrochemical Feedstocks	1.40	1.39	1.29	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.68	1.70	1.71	1.73	1.0%	
Residual Fuel	1.14	1.02	1.05	1.00	1.03	1.05	1.07	1.10	1.13	1.15	1.18	1.20	1.23	1.25	1.28	1.31	1.35	1.38	1.41	1.43	1.46	1.48	1.49	1.52	1.8%	
Other Petroleum 12/	4.34	4.39	4.58	4.74	4.76	4.77	4.78	4.84	4.88	4.90	4.94	4.95	4.97	4.98	5.01	5.03	5.06	5.10	5.15	5.16	5.17	5.21	5.26	5.29	0.9%	
Petroleum Subtotal	35.55	35.98	36.73	37.21	37.79	38.39	38.97	39.66	40.27	40.85	41.42	41.93	42.37	42.88	43.25	43.73	44.23	44.81	45.33	45.71	46.13	46.59	47.08	47.58	1.3%	
Natural Gas 6/	19.16	18.24	18.50	18.81	18.89	19.07	19.38	19.65	19.92	20.20	20.43	20.66	20.85	21.10	21.27	21.51	21.74	21.98	22.22	22.37	22.53	22.69	22.85	23.00	1.1%	
Metalurgical Coal	0.81	0.76	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.52	-1.7%	
Steam Coal	1.71	1.68	1.69	1.69	1.69	1.69	1.71	1.72	1.73	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.75	1.76	1.76	1.76	1.76	1.77	1.78	0.3%	
Net Coal Coke Imports	0.02	0.07	0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	6.7%	
Coal Subtotal	2.54	2.50	2.52	2.52	2.52	2.53	2.55	2.57	2.58	2.59	2.59	2.58	2.57	2.57	2.56	2.56	2.56	2.57	2.57	2.56	2.56	2.57	2.57	2.58	0.1%	
Renewable Energy 13/	2.53	2.55	2.63	2.66	2.70	2.74	2.78	2.82	2.86	2.89	2.92	2.95	2.97	3.01	3.03	3.06	3.09	3.12	3.16	3.19	3.21	3.24	3.27	3.30	1.2%	
Methanol (M85) 11/	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	13.7%	
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Electricity	10.76	11.04	11.22	11.45	11.59	11.80	12.02	12.23	12.43	12.60	12.78	12.98	13.14	13.30	13.47	13.66	13.82	14.00	14.15	14.28	14.40	14.53	14.67	14.82	1.3%	
Delivered Energy	70.55	70.32	71.60	72.68	73.53	74.57	75.75	76.98	78.13	79.19	80.20	81.18	82.00	82.94	83.67	84.62	85.55	86.59	87.54	88.24	88.97	89.75	90.57	91.41	1.2%	
Electricity Related Losses	23.86	24.56	24.78	25.30	25.56	25.98	26.31	26.42	26.65	26.83	27.00	27.28	27.40	27.54	27.70	27.84	27.97	28.08	28.22	28.22	28.21	28.29	28.35	28.47	0.7%	
Total	94.41	94.88	96.39	97.98	99.08	100.55	102.06	103.40	104.78	106.03	107.20	108.46	109.40	110.48	111.37	112.45	113.52	114.67	115.76	116.45	117.18	118.04	118.92	119.88	1.1%	
Electric Generators 14/																										
Distillate Fuel	0.05	0.08	0.05	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	-2.9%	
Residual Fuel	0.83	1.15	1.16	0.59	0.56	0.45	0.40	0.36	0.31	0.27	0.22	0.20	0.16	0.15	0.13	0.12	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	-10.8%	
Petroleum Subtotal	0.88	1.23	1.21	0.65	0.61	0.50	0.44	0.40	0.35	0.30	0.25	0.23	0.19	0.19	0.16	0.16	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	-9.6%	
Natural Gas	3.44	3.75	3.56	4.40	4.18	4.18	4.34	4.37	4.73	5.10	5.59	5.89	6.27	6.79	7.11	7.44	7.78	8.19	8.70	8.84	9.11	9.30	9.38	9.44	4.3%	
Steam Coal	18.80	19.00	19.37	19.92	20.48	20.93	21.44	21.93	22.13	22.26	22.37	22.55	22.48	22.45	22.60	22.70	22.86	22.99	23.26	23.36	23.55	23.68	23.90	24.11	1.1%	
Nuclear Power</																										

**Table 2. Energy Consumption by Sector and Source (3 of 3)**  
**(Quadrillion Btu per Year, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Total Energy Consumption																									
Distillate Fuel	7.27	7.32	7.46	7.45	7.51	7.60	7.70	7.80	7.89	7.94	7.99	8.03	8.04	8.09	8.11	8.16	8.22	8.30	8.37	8.40	8.45	8.49	8.54	8.59	0.7%
Kerosene	0.14	0.16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	-0.8%
Jet Fuel 8/	3.31	3.36	3.46	3.54	3.64	3.74	3.88	4.02	4.14	4.29	4.41	4.55	4.67	4.81	4.91	5.05	5.18	5.33	5.46	5.58	5.70	5.84	5.97	6.09	2.7%
Liquefied Petroleum Gas	2.71	2.59	2.74	2.73	2.76	2.78	2.82	2.84	2.86	2.87	2.90	2.93	2.95	2.98	3.00	3.02	3.05	3.08	3.10	3.12	3.14	3.16	3.18	3.21	1.0%
Motor Gasoline 2/	15.31	15.82	16.05	16.36	16.69	17.00	17.22	17.54	17.80	18.09	18.37	18.61	18.85	19.08	19.26	19.44	19.63	19.85	20.07	20.25	20.43	20.63	20.83	21.05	1.3%
Petrochemical Feedstocks	1.40	1.39	1.29	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.68	1.70	1.71	1.73	1.0%
Residual Fuel	1.96	2.17	2.21	1.60	1.58	1.50	1.48	1.46	1.44	1.42	1.39	1.40	1.38	1.41	1.40	1.44	1.46	1.49	1.51	1.53	1.56	1.57	1.59	1.62	-1.3%
Other Petroleum 12/	4.34	4.39	4.58	4.74	4.76	4.77	4.78	4.84	4.88	4.90	4.94	4.95	4.97	4.98	5.01	5.03	5.06	5.10	5.15	5.16	5.17	5.21	5.26	5.29	0.9%
Petroleum Subtotal	36.43	37.21	37.94	37.86	38.40	38.89	39.41	40.07	40.62	41.15	41.67	42.17	42.56	43.06	43.41	43.88	44.37	44.95	45.46	45.85	46.27	46.73	47.21	47.71	1.1%
Natural Gas	22.60	21.99	22.06	23.21	23.06	23.25	23.72	24.02	24.65	25.30	26.01	26.55	27.12	27.89	28.38	28.96	29.52	30.18	30.91	31.22	31.64	31.99	32.23	32.44	1.8%
Metallurgical Coal	0.81	0.76	0.75	0.73	0.72	0.71	0.70	0.69	0.68	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.55	0.54	0.53	0.52	0.52	-1.7%
Steam Coal	20.51	20.68	21.06	21.61	22.17	22.63	23.14	23.65	23.86	24.00	24.11	24.29	24.22	24.19	24.33	24.44	24.60	24.74	25.02	25.12	25.31	25.45	25.67	25.89	1.0%
Net Coal Coke Imports	0.02	0.07	0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.27	0.27	0.28	6.7%
Coal Subtotal	21.34	21.50	21.89	22.44	23.00	23.46	23.98	24.49	24.71	24.84	24.95	25.13	25.05	25.02	25.16	25.26	25.42	25.56	25.83	25.93	26.11	26.25	26.47	26.68	1.0%
Nuclear Power	6.71	7.19	7.46	7.35	7.37	7.38	7.37	7.27	7.20	7.01	6.88	6.86	6.87	6.70	6.53	6.45	6.26	5.97	5.45	5.23	4.92	4.74	4.65	4.63	-2.0%
Renewable Energy 17/	7.00	6.67	6.56	6.68	6.80	7.00	7.01	7.03	7.09	7.19	7.21	7.32	7.39	7.46	7.52	7.58	7.62	7.72	7.79	7.90	7.89	7.97	8.00	8.08	0.9%
Methanol (M85) 11/	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.13	0.13	0.14	0.14	13.7%
Liquid Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Electricity Imports 16/	0.33	0.31	0.48	0.42	0.41	0.52	0.51	0.47	0.44	0.47	0.40	0.35	0.32	0.26	0.27	0.22	0.21	0.19	0.19	0.21	0.21	0.23	0.23	0.21	-1.8%
Total	94.41	94.88	96.39	97.98	99.08	100.55	102.06	103.40	104.78	106.03	107.20	108.46	109.40	110.48	111.37	112.45	113.52	114.67	115.76	116.45	117.18	118.04	118.92	119.88	1.1%
<b>Energy Use &amp; Related Statistics</b>																									
Delivered Energy Use	70.55	70.32	71.60	72.68	73.53	74.57	75.75	76.98	78.13	79.19	80.20	81.18	82.00	82.94	83.67	84.62	85.55	86.59	87.54	88.24	88.97	89.75	90.57	91.41	1.2%
Total Energy Use	94.41	94.88	96.39	97.98	99.08	100.55	102.06	103.40	104.78	106.03	107.20	108.46	109.40	110.48	111.37	112.45	113.52	114.67	115.76	116.45	117.18	118.04	118.92	119.88	1.1%
Population (millions)	268.20	270.58	272.91	275.21	277.50	279.77	282.04	284.30	286.57	288.87	291.19	293.54	295.92	298.34	300.79	303.26	305.75	308.26	310.78	313.31	315.84	318.37	320.89	323.40	0.8%
US GDP (billion 1992 dollars)	7270	7552	7838	7983	8181	8365	8587	8815	9042	9236	9432	9636	9821	10031	10187	10392	10624	10882	11124	11300	11503	11711	11931	12151	2.2%
Total Carbon Emis.(mill. m. tons)	1478.9	1485.4	1519.7	1547.4	1568.8	1591.8	1619.7	1648.3	1672.4	1694.4	1716.0	1737.0	1749.9	1768.9	1785.6	1804.6	1825.0	1847.4	1873.7	1887.4	1905.6	1922.3	1939.4	1956.3	1.3%

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.

2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.

3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.

4/ Fuel consumption includes consumption for cogeneration.

5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.

6/ Includes lease and plant fuel and consumption by cogenerators, excludes consumption by nonutility generators.

7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass; includes cogeneration, both for sale to the grid and for own use.

8/ Includes naphtha and kerosene type.

9/ Includes aviation gas and lubricants.

10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

11/ M85 is 85 percent methanol and 15 percent motor gasoline.

12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.

13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

14/ Includes consumption of energy by all electric power generators for grid-connected power except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes cogeneration. Excludes net electricity imports.

16/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

17/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.

Btu = British thermal unit.

Emis. = Emissions.

Mill. m. tons = Million metric tons.

N/A = Not applicable.

GDP = Gross domestic product.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.

Sources: 1997 natural gas lease, plant, and pipeline fuel values: Energy Information Administration (EIA), Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). 1997 and 1998 electric utility fuel consumption: EIA, Electric Power Annual 1998, Volume 1, DOE/EIA-0348(98)/1 (Washington, DC, April 1999). 1997 and 1998 nonutility consumption estimates: Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1997 values: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A. Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online.

<http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.



**Table 3. Energy Prices by Sector and Source (2 of 2)**  
**(1998 Dollars per Million Btu, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Average Price to All Users 14/																									
Petroleum Products 2/	7.96	6.64	7.06	8.85	8.78	8.73	8.80	8.86	8.92	8.99	9.08	9.23	9.30	9.36	9.41	9.45	9.48	9.54	9.60	9.60	9.59	9.61	9.59	9.63	1.7%
Distillate Fuel	7.71	6.60	7.05	8.63	8.60	8.58	8.63	8.67	8.69	8.76	8.82	8.95	9.02	9.07	9.14	9.16	9.19	9.21	9.37	9.43	9.42	9.40	9.35	9.36	1.6%
Jet Fuel	5.30	4.06	4.65	5.82	5.79	5.82	5.88	5.96	6.01	6.10	6.22	6.45	6.54	6.59	6.70	6.75	6.79	6.91	7.09	7.28	7.35	7.48	7.53	7.76	3.0%
Liquefied Petroleum Gas	9.39	7.76	6.87	9.71	9.62	9.52	9.52	9.59	9.67	9.79	9.73	9.98	10.08	10.13	10.15	10.30	10.35	10.43	10.47	10.49	10.51	10.56	10.56	10.69	1.5%
Motor Gasoline 8/	10.07	8.54	9.30	10.98	10.86	10.76	10.87	10.93	11.00	11.04	11.17	11.30	11.35	11.43	11.46	11.52	11.55	11.62	11.63	11.56	11.52	11.53	11.50	11.48	1.4%
Residual Fuel	3.05	2.24	2.52	3.75	3.68	3.63	3.65	3.69	3.74	3.83	3.89	3.96	4.03	4.09	4.15	4.22	4.27	4.31	4.35	4.36	4.37	4.37	4.37	4.38	3.1%
Natural Gas	4.38	3.92	4.00	4.17	4.20	4.22	4.25	4.32	4.37	4.42	4.44	4.44	4.43	4.41	4.40	4.38	4.36	4.35	4.34	4.34	4.34	4.34	4.35	4.37	0.5%
Coal	1.32	1.29	1.27	1.26	1.21	1.18	1.16	1.15	1.14	1.13	1.13	1.10	1.10	1.11	1.09	1.08	1.07	1.06	1.06	1.05	1.04	1.03	1.01	1.01	-1.1%
Ethanol (E85) 11/	16.44	14.35	14.53	18.31	18.12	17.95	18.61	18.68	18.75	18.88	19.11	19.35	19.45	19.61	19.69	19.81	19.89	19.98	20.07	20.06	20.03	20.09	19.68	19.66	1.4%
Methanol (M85) 12/	13.39	8.99	10.46	12.69	12.78	12.62	14.72	14.79	15.19	15.34	15.72	15.85	15.95	16.06	16.16	16.26	16.32	16.41	16.45	16.44	16.42	16.41	16.39	16.37	2.8%
Electricity	20.19	19.56	19.34	19.31	19.00	18.55	18.37	18.29	18.04	18.08	18.04	17.90	17.74	17.84	17.57	17.50	17.39	17.42	17.42	17.36	17.32	17.27	17.19	17.19	-0.6%
Non-Renewable Energy Expenditures by Sector (billion 1998 dollars)																									
Residential	137.57	131.08	132.78	140.74	140.60	140.64	141.86	144.09	144.66	146.69	148.36	150.07	150.47	152.41	152.43	153.79	154.28	155.84	157.30	158.69	159.33	160.46	161.56	163.39	1.0%
Commercial	101.13	96.88	98.76	101.73	101.64	100.80	101.27	102.12	102.43	103.89	104.78	105.38	105.91	107.51	107.47	108.24	108.67	109.55	110.17	110.40	110.55	110.66	110.52	110.80	0.6%
Industrial	116.23	101.25	101.88	117.37	117.07	117.29	119.98	122.67	125.35	128.29	130.30	132.70	133.94	136.08	136.20	138.24	140.26	142.93	145.45	146.39	147.86	149.39	150.93	153.87	1.9%
Transportation	215.27	188.13	207.33	252.49	255.37	258.82	265.73	272.87	279.29	285.94	293.91	302.62	308.45	314.97	319.85	325.20	330.31	337.16	343.93	347.43	350.60	355.28	358.69	363.66	3.0%
Total Non-Renewable Expend.	570.20	517.34	540.76	612.34	614.67	617.55	628.85	641.75	651.73	664.80	677.36	690.77	698.77	710.96	715.95	725.48	733.52	745.48	756.86	762.91	768.34	775.80	781.70	791.72	2.0%
Trans. Renewable Expend.	0.01	0.04	0.09	0.16	0.23	0.31	0.40	0.49	0.58	0.67	0.77	0.86	0.95	1.03	1.10	1.16	1.22	1.27	1.32	1.34	1.36	1.37	1.36	1.36	17.3%
Total Expenditures	570.21	517.38	540.84	612.50	614.90	617.86	629.24	642.24	652.30	665.48	678.13	691.63	699.72	711.99	717.05	726.64	734.74	746.75	758.17	764.25	769.70	777.17	783.05	793.08	2.0%

1/ Weighted average price includes fuels below as well as coal.

2/ This quantity is the weighted average for all petroleum products, not just those listed below.

3/ Excludes independent power producers.

4/ Includes cogenerators.

5/ Excludes uses for lease and plant fuel.

6/ Low sulfur diesel fuel. Price includes Federal and State taxes while excluding county and local taxes.

7/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.

8/ Sales weighted-average price for all grades. Includes Federal and State taxes and assumes county and local taxes of 2 cents per gallon.

9/ Includes Federal and State taxes while excluding county and local taxes.

10/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).

12/ M85 is 85 percent methanol and 15 percent motor gasoline.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.

Btu = British thermal unit.

Expend. = Expenditures.

Trans. = Transportation.

Note: Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 1997 . Online. [ftp://ftp.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/historical/1997/pdf/pmaall.pdf](http://ftp.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/historical/1997/pdf/pmaall.pdf) (September 1, 1999). 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1997 and 1998 prices for all other petroleum products are derived from the EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). 1997 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). 1997 electric generators natural gas delivered prices: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1997 and 1998 industrial gas delivered prices are based on EIA, Manufacturing Energy Consumption Survey 1994. 1998 residential and commercial natural gas delivered prices: EIA Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1997 and 1998 coal prices based on EIA, Quarterly Coal Report , DOE/EIA-0121(99/1Q) (Washington, DC, August 1999), and EIA, AEO 2000 National Energy Modeling System run HWOP2K.D100199A. 1997 residential electricity prices derived from EIA, Short-Term Energy Outlook, September 1999. Online.<http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999). 1997 and 1998 electricity prices for commercial, industrial, and transportation: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 4. Residential Sector Key Indicators and Consumption (1 of 2)**  
 (Quadrillion Btu per year, Unless otherwise noted)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Key Indicators																										
Households (millions)																										
Single-Family	73.74	74.69	75.68	76.51	77.32	78.12	78.93	79.75	80.59	81.40	82.20	82.96	83.66	84.34	84.96	85.58	86.23	86.90	87.56	88.14	88.73	89.32	89.92	90.50	0.9%	
Multifamily	21.43	21.68	21.91	22.12	22.37	22.62	22.87	23.14	23.41	23.68	23.98	24.28	24.59	24.91	25.24	25.56	25.89	26.23	26.57	26.90	27.23	27.55	27.88	28.20	1.2%	
Mobile Homes	6.32	6.47	6.61	6.73	6.84	6.95	7.05	7.16	7.28	7.39	7.50	7.61	7.71	7.82	7.91	8.01	8.11	8.21	8.32	8.41	8.51	8.60	8.69	8.78	1.4%	
Total	101.48	102.84	104.20	105.36	106.52	107.68	108.85	110.05	111.27	112.47	113.68	114.85	115.97	117.07	118.10	119.15	120.23	121.35	122.45	123.46	124.47	125.48	126.50	127.49	1.0%	
Average House Square Footage	1663	1667	1671	1675	1678	1681	1683	1686	1689	1691	1694	1695	1697	1698	1700	1701	1702	1703	1704	1705	1705	1706	1707	1707	0.1%	
Energy Intensity (million Btu per household)																										
Delivered Energy Consumption	105.48	99.54	102.78	103.64	103.10	102.83	102.48	102.40	101.81	101.46	101.17	101.30	100.98	100.89	100.72	100.82	100.38	100.21	100.00	100.12	99.73	99.64	99.60	99.81	0.0%	
Electricity Related Losses	80.18	82.95	82.66	84.70	84.84	85.16	85.07	84.50	84.04	83.75	83.36	83.58	83.21	82.98	82.73	82.52	81.96	81.53	81.26	80.92	80.23	79.98	79.69	79.77	-0.2%	
Total Energy Consumption	185.66	182.49	185.44	188.34	187.94	187.99	187.55	186.90	185.84	185.21	184.54	184.88	184.19	183.87	183.45	183.33	182.35	181.74	181.26	181.03	179.96	179.62	179.29	179.57	-0.1%	
Delivered Energy Consumption by Fuel																										
Electricity																										
Space Heating	0.42	0.38	0.40	0.42	0.42	0.43	0.43	0.44	0.44	0.45	0.45	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.49	0.49	0.49	0.49	0.50	1.3%	
Space Cooling	0.45	0.56	0.52	0.51	0.52	0.53	0.53	0.54	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.65	0.65	0.66	0.8%	
Water Heating	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.4%	
Refrigeration	0.46	0.45	0.43	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	-1.5%	
Cooking	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	1.0%	
Clothes Dryers	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	1.2%	
Freezers	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	-1.8%	
Lighting	0.33	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43	1.3%	
Clothes Washers 1/	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.0%	
Dishwashers 1/	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.9%	
Color Televisions	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	1.7%	
Personal Computers	0.03	0.05	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	3.2%	
Furnace Fans	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.17%		
Other Uses 2/	0.87	0.96	1.04	1.15	1.19	1.23	1.28	1.32	1.37	1.41	1.45	1.50	1.55	1.59	1.63	1.68	1.71	1.75	1.79	1.83	1.86	1.89	1.93	1.97	3.3%	
Delivered Energy	3.67	3.83	3.90	4.04	4.10	4.17	4.23	4.31	4.36	4.42	4.48	4.57	4.63	4.69	4.75	4.82	4.87	4.93	4.99	5.06	5.10	5.16	5.22	5.29	1.5%	
Natural Gas																										
Space Heating	3.49	3.01	3.31	3.42	3.44	3.46	3.48	3.50	3.51	3.54	3.56	3.60	3.62	3.65	3.68	3.71	3.73	3.76	3.78	3.82	3.84	3.87	3.90	3.94	1.2%	
Space Cooling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	16.0%	
Water Heating	1.26	1.23	1.25	1.24	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.32	1.33	1.34	1.35	1.36	1.36	1.37	1.38	1.39	1.40	1.40	1.41	1.42	0.6%	
Cooking	0.19	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.24	0.24	1.2%	
Clothes Dryers	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	2.1%	
Other Uses 3/	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	1.1%	
Delivered Energy	5.12	4.61	4.93	5.04	5.06	5.10	5.13	5.18	5.20	5.24	5.28	5.35	5.38	5.44	5.47	5.53	5.56	5.60	5.64	5.70	5.72	5.77	5.81	5.86	1.1%	
Distillate																										
Space Heating	0.78	0.71	0.75	0.71	0.70	0.69	0.67	0.66	0.65	0.64	0.63	0.61	0.60	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.53	0.52	0.51	0.51	-1.5%	
Water Heating	0.12	0.13	0.13	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-1.6%	
Other Uses 4/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Delivered Energy	0.90	0.84	0.88	0.83	0.81	0.80	0.79	0.78	0.76	0.75	0.73	0.72	0.71	0.70	0.68	0.68	0.67	0.66	0.64	0.64	0.63	0.62	0.61	0.61	-1.5%	
Liquefied Petroleum Gas																										
Space Heating	0.30	0.27	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.25	0.25	0.25	-0.4%	
Water Heating	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	-0.8%	
Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.1%	
Other Uses 3/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.6%	
Delivered Energy	0.44	0.41	0.44	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.41	0.40	0.40	0.39	0.39	0.38	0.38	0.37	0.37	-0.4%	

**Table 4. Residential Sector Key Indicators and Consumption (2 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Marketed Renewables (wood) 5/	0.42	0.38	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.7%	
Other Fuels 6/	0.15	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	-0.8%	
<b>Delivered Energy Consumption by End-Use</b>																										
Space Heating	5.56	4.91	5.32	5.43	5.43	5.44	5.45	5.48	5.47	5.48	5.50	5.53	5.54	5.56	5.57	5.61	5.61	5.63	5.65	5.69	5.69	5.72	5.75	5.79	0.8%	
Space Cooling	0.45	0.56	0.52	0.51	0.52	0.53	0.54	0.54	0.55	0.56	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.9%	
Water Heating	1.88	1.87	1.88	1.86	1.86	1.87	1.88	1.90	1.90	1.91	1.93	1.94	1.95	1.97	1.98	1.99	1.99	2.00	2.01	2.02	2.01	2.02	2.02	2.03	0.4%	
Refrigeration	0.46	0.45	0.43	0.43	0.42	0.41	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32	-1.5%	
Cooking	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.39	0.39	0.40	0.40	0.40	0.40	1.1%	
Clothes Dryers	0.28	0.28	0.29	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38	0.39	0.39	0.39	1.5%	
Freezers	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	-1.8%	
Lighting	0.33	0.33	0.33	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43	1.3%	
Clothes Washers	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.0%	
Dishwashers	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.9%	
Color Televisions	0.11	0.12	0.12	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	1.7%	
Personal Computers	0.03	0.05	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	3.2%	
Furnace Fans	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	1.7%	
Other Uses 7/	0.99	1.08	1.17	1.28	1.32	1.36	1.41	1.46	1.50	1.55	1.59	1.64	1.69	1.74	1.78	1.82	1.86	1.90	1.94	1.98	2.01	2.05	2.08	2.13	3.1%	
Delivered Energy	10.70	10.24	10.71	10.92	10.98	11.07	11.16	11.27	11.33	11.41	11.50	11.63	11.71	11.81	11.90	12.01	12.07	12.16	12.24	12.36	12.41	12.50	12.60	12.72	1.0%	
Electricity Related Losses	8.14	8.53	8.61	8.92	9.04	9.17	9.26	9.30	9.35	9.42	9.48	9.60	9.65	9.71	9.77	9.83	9.85	9.89	9.95	9.99	9.99	10.04	10.08	10.17	0.8%	
<b>Total Energy Consum. by End-Use</b>																										
Space Heating	6.48	5.75	6.21	6.36	6.36	6.39	6.40	6.43	6.42	6.43	6.45	6.49	6.50	6.52	6.54	6.57	6.57	6.60	6.61	6.65	6.65	6.67	6.70	6.75	0.7%	
Space Cooling	1.44	1.81	1.66	1.65	1.66	1.68	1.70	1.71	1.72	1.73	1.74	1.76	1.78	1.79	1.81	1.83	1.84	1.86	1.87	1.89	1.90	1.92	1.93	1.95	0.4%	
Water Heating	2.77	2.76	2.76	2.74	2.75	2.77	2.78	2.79	2.80	2.81	2.82	2.84	2.85	2.86	2.87	2.88	2.87	2.88	2.88	2.88	2.88	2.87	2.87	2.88	0.2%	
Refrigeration	1.49	1.45	1.40	1.38	1.35	1.31	1.27	1.23	1.19	1.16	1.13	1.11	1.08	1.05	1.03	1.01	0.99	0.98	0.96	0.96	0.94	0.94	0.93	0.93	-2.0%	
Cooking	0.55	0.55	0.55	0.56	0.57	0.57	0.58	0.58	0.59	0.59	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.8%		
Clothes Dryers	0.76	0.77	0.77	0.78	0.79	0.81	0.82	0.82	0.83	0.84	0.85	0.86	0.87	0.87	0.88	0.89	0.89	0.90	0.90	0.91	0.91	0.92	0.93	0.93	0.9%	
Freezers	0.42	0.40	0.38	0.37	0.36	0.34	0.33	0.32	0.30	0.30	0.29	0.28	0.28	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	-2.2%	
Lighting	1.06	1.06	1.07	1.08	1.11	1.13	1.15	1.17	1.17	1.19	1.20	1.22	1.23	1.23	1.24	1.25	1.25	1.25	1.26	1.26	1.26	1.26	1.27	1.27	0.8%	
Clothes Washers	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.5%	
Dishwashers	0.14	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.5%	
Color Televisions	0.36	0.38	0.40	0.42	0.43	0.44	0.46	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	1.2%	
Personal Computers	0.11	0.18	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.31	0.32	0.32	2.7%	
Furnace Fans	0.25	0.21	0.21	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	1.3%	
Other Uses 7/	2.92	3.21	3.47	3.82	3.94	4.08	4.20	4.32	4.43	4.55	4.66	4.80	4.91	5.03	5.13	5.24	5.32	5.42	5.52	5.60	5.65	5.73	5.81	5.91	2.8%	
Total	18.84	18.77	19.32	19.84	20.02	20.24	20.42	20.57	20.68	20.83	20.98	21.23	21.36	21.53	21.67	21.84	21.92	22.05	22.19	22.35	22.40	22.54	22.68	22.89	0.9%	
<b>Non-Marketed Renewables</b>																										
Geothermal 8/	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	5.6%	
Solar 9/	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	2.2%	
Total	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	4.9%	

1/ Does not include electric water heating portion of load.

2/ Includes small electric devices, heating elements, and motors.

3/ Includes such appliances as swimming pool heaters, outdoor grills, and outdoor lighting (natural gas).

4/ Includes such appliances as swimming pool and hot tub heaters.

5/ Includes wood used for primary and secondary heating in wood stoves or fireplaces as reported in the Residential Energy Consumption Survey 1997.

6/ Includes kerosene and coal.

7/ Includes all other uses listed above.

8/ Includes primary energy displaced by geothermal heat pumps in space heating and cooling applications.

9/ Includes primary energy displaced by solar thermal water heaters and electricity generated using photovoltaics.

N/A = Not applicable.

Btu = British thermal unit.

Consum. = Consumption.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Source: 1997 and 1998: Energy Information Administration (EIA), Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 5. Commercial Sector Key Indicators and Consumption (1 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

**Table 5. Commercial Sector Key Indicators and Consumption (2 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Deliv. Energy Consump. by End-Use																										
Space Heating	1.54	1.37	1.50	1.54	1.55	1.55	1.55	1.55	1.55	1.55	1.56	1.56	1.57	1.57	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.56	0.6%	
Space Cooling	0.38	0.46	0.44	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.44	-0.2%	
Water Heating	0.65	0.67	0.68	0.67	0.68	0.69	0.69	0.69	0.70	0.70	0.71	0.71	0.72	0.72	0.73	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.4%	
Ventilation	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.5%	
Cooking	0.23	0.23	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.8%	
Lighting	1.16	1.17	1.18	1.18	1.19	1.19	1.19	1.20	1.20	1.20	1.21	1.22	1.22	1.23	1.24	1.24	1.25	1.25	1.25	1.25	1.24	1.24	1.23	1.23	0.2%	
Refrigeration	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.6%	
Office Equipment (PC)	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16	0.16	2.9%	
Office Equipment (non-PC)	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.45	2.5%	
Other Uses 6/	3.04	2.86	2.96	3.00	3.06	3.12	3.17	3.22	3.27	3.32	3.38	3.43	3.49	3.55	3.60	3.65	3.70	3.74	3.78	3.81	3.85	3.87	3.90	3.91	1.4%	
Delivered Energy	7.67	7.46	7.71	7.80	7.90	8.00	8.07	8.14	8.23	8.31	8.39	8.49	8.59	8.67	8.77	8.85	8.93	8.99	9.04	9.08	9.12	9.14	9.16	9.16	0.9%	
Electricity Related Losses	7.77	7.93	8.11	8.26	8.39	8.53	8.60	8.60	8.67	8.73	8.78	8.87	8.93	8.97	9.05	9.08	9.11	9.11	9.11	9.08	9.05	9.03	8.99	8.96	0.6%	
Total Energy Consump. by End-Use																										
Space Heating	1.79	1.60	1.74	1.79	1.80	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.80	1.80	1.80	1.80	1.79	1.79	1.78	1.78	1.77	1.76	1.75	0.4%	
Space Cooling	1.19	1.46	1.37	1.34	1.35	1.35	1.35	1.34	1.34	1.33	1.33	1.33	1.33	1.33	1.32	1.32	1.32	1.31	1.30	1.29	1.28	1.27	1.26	1.25	-0.7%	
Water Heating	0.92	0.94	0.95	0.94	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.96	0.97	0.97	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.97	0.96	0.96	0.1%	
Ventilation	0.54	0.54	0.55	0.55	0.56	0.56	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.58	0.57	0.57	0.57	0.57	0.56	0.56	0.55	0.55	0.54	0.0%	
Cooking	0.29	0.30	0.31	0.30	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.4%		
Lighting	3.72	3.76	3.78	3.80	3.81	3.82	3.81	3.78	3.78	3.77	3.77	3.77	3.78	3.77	3.78	3.78	3.78	3.76	3.74	3.71	3.68	3.65	3.62	3.58	-0.2%	
Refrigeration	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.60	0.60	0.60	0.60	0.2%	
Office Equipment (PC)	0.25	0.27	0.29	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.39	0.40	0.40	0.41	0.42	0.42	0.43	0.43	0.44	0.45	0.45	0.46	0.46	2.4%	
Office Equipment (non-PC)	0.81	0.84	0.87	0.90	0.93	0.96	0.98	1.00	1.02	1.05	1.07	1.10	1.12	1.14	1.17	1.19	1.21	1.23	1.25	1.27	1.28	1.30	1.31	1.33	2.1%	
Other Uses 6/	5.36	5.09	5.39	5.53	5.68	5.83	5.94	6.04	6.16	6.27	6.38	6.50	6.62	6.72	6.83	6.92	7.01	7.07	7.14	7.19	7.23	7.27	7.30	7.33	1.7%	
Total	15.43	15.38	15.82	16.06	16.29	16.52	16.67	16.74	16.90	17.03	17.17	17.35	17.52	17.64	17.82	17.93	18.04	18.10	18.15	18.16	18.16	18.17	18.15	18.12	0.7%	
Non-Marketed Renewable Fuels																										
Solar 7/	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.1%	
Total	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.1%	

1/ Includes miscellaneous uses, such as service station equipment, district services, automated teller machines, telecommunications equipment, and medical equipment.

2/ Excludes estimated consumption from independent power producers.

3/ Includes miscellaneous uses, such as district services, pumps, emergency electric generators, cogeneration in commercial buildings, and manufacturing performed in commercial buildings.

4/ Includes miscellaneous uses, such as cooking, district services, emergency electric generators, and cogeneration in commercial buildings.

5/ Includes residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

6/ Includes miscellaneous uses, such as service station equipment, district services, automated teller machines, telecommunications equipment, medical equipment, pumps, lighting, emergency electric generators, cogeneration in commercial buildings, manufacturing performed in commercial buildings, and cooking (distillate), plus residual fuel oil, liquefied petroleum gas, coal, motor gasoline, and kerosene.

7/ Includes primary energy displaced by solar thermal space heating and water heating, and electricity generation by solar photovoltaic systems.

N/A = Not applicable.

Btu = British thermal unit.

PC = Personal computer.

Consump. = Consumption.

Deliv. = Delivered.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Source: 1997 and 1998 Energy Information Administration (EIA), Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999).

Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 6. Industrial Sector Key Indicators and Consumption (1 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Key Indicators																									
Value of Gross Output (billion 1987 dollars)																									
Manufacturing																									
Manufacturing	3184	3291	3346	3384	3443	3543	3659	3746	3838	3910	3997	4080	4143	4222	4283	4365	4463	4561	4658	4715	4794	4873	4954	5034	2.0%
Nonmanufacturing	810	835	850	857	864	879	894	913	932	946	958	969	977	989	997	1011	1027	1048	1069	1078	1089	1103	1119	1133	1.4%
Total	3993	4126	4195	4241	4307	4422	4554	4659	4769	4856	4955	5049	5120	5212	5280	5375	5490	5609	5727	5794	5883	5976	6073	6167	1.8%
Energy Prices (1998 dollars per million Btu)																									
Electricity	13.58	13.09	13.03	13.08	12.87	12.48	12.33	12.24	12.06	12.11	12.10	11.97	11.87	11.93	11.69	11.61	11.53	11.55	11.57	11.49	11.46	11.42	11.35	11.38	-0.6%
Natural Gas	3.08	2.66	2.82	2.91	2.94	3.04	3.13	3.22	3.30	3.36	3.39	3.40	3.41	3.41	3.42	3.42	3.43	3.45	3.47	3.49	3.51	3.53	3.56	3.56	1.3%
Steam Coal	1.48	1.45	1.41	1.40	1.38	1.37	1.36	1.34	1.33	1.32	1.31	1.30	1.29	1.27	1.26	1.25	1.24	1.23	1.22	1.21	1.20	1.19	1.18	1.17	-1.0%
Residual Oil	3.13	2.49	2.58	3.76	3.68	3.62	3.63	3.66	3.71	3.79	3.84	3.91	3.96	4.01	4.07	4.14	4.19	4.24	4.27	4.28	4.29	4.28	4.28	4.28	2.5%
Distillate Oil	5.19	4.02	4.79	6.02	6.01	5.96	6.01	6.05	6.11	6.19	6.28	6.44	6.50	6.56	6.63	6.65	6.68	6.71	6.85	6.89	6.87	6.89	6.89	6.91	2.5%
Liquefied Petroleum Gas	8.81	7.11	5.79	8.70	8.61	8.49	8.49	8.55	8.62	8.74	8.68	8.95	9.05	9.11	9.13	9.30	9.37	9.45	9.50	9.53	9.57	9.62	9.63	9.78	1.5%
Motor Gasoline	10.05	8.54	9.26	10.98	10.87	10.76	10.85	10.91	10.97	11.01	11.15	11.28	11.33	11.41	11.43	11.49	11.53	11.59	11.62	11.55	11.52	11.53	11.51	11.48	1.4%
Metallurgical Coal	1.78	1.72	1.76	1.76	1.74	1.71	1.70	1.68	1.67	1.66	1.65	1.63	1.62	1.61	1.59	1.58	1.58	1.57	1.56	1.55	1.54	1.52	1.51	1.51	-0.6%
Energy Consumption																									
Consumption 1/																									
Purchased Electricity	3.52	3.57	3.58	3.60	3.62	3.69	3.78	3.86	3.93	3.98	4.03	4.08	4.11	4.15	4.19	4.25	4.31	4.38	4.44	4.48	4.53	4.58	4.64	4.70	1.2%
Natural Gas 2/	9.95	9.75	9.50	9.65	9.66	9.77	10.00	10.18	10.38	10.56	10.68	10.78	10.87	11.00	11.07	11.20	11.35	11.49	11.63	11.70	11.80	11.89	11.98	12.07	1.0%
Steam Coal	1.57	1.54	1.54	1.54	1.53	1.54	1.55	1.56	1.58	1.58	1.59	1.58	1.58	1.58	1.58	1.58	1.59	1.59	1.60	1.60	1.60	1.61	1.62	1.62	0.3%
Metallurgical Coal and Coke 3/	0.83	0.82	0.83	0.83	0.83	0.84	0.84	0.85	0.85	0.85	0.85	0.84	0.83	0.83	0.82	0.82	0.82	0.82	0.81	0.81	0.80	0.80	0.80	0.80	-0.2%
Residual Fuel	0.30	0.27	0.28	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.25	0.26	0.26	0.26	0.25	0.24	0.25	-0.3%
Distillate	1.14	1.08	1.09	1.08	1.10	1.12	1.15	1.18	1.20	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.31	1.33	1.35	1.36	1.37	1.39	1.41	1.42	1.2%
Liquefied Petroleum Gas	2.16	2.06	2.18	2.17	2.19	2.21	2.24	2.25	2.27	2.27	2.30	2.33	2.35	2.38	2.40	2.42	2.45	2.49	2.51	2.52	2.54	2.56	2.59	2.62	1.1%
Petrochemical Feedstocks	1.40	1.39	1.29	1.30	1.33	1.35	1.40	1.44	1.47	1.51	1.53	1.55	1.56	1.58	1.59	1.61	1.63	1.65	1.66	1.67	1.68	1.70	1.71	1.73	1.0%
Other Petroleum 4/	4.31	4.32	4.51	4.66	4.69	4.70	4.71	4.77	4.81	4.83	4.87	4.88	4.90	4.91	4.94	4.96	5.00	5.04	5.08	5.09	5.11	5.15	5.20	5.23	0.9%
Renewables 5/	2.03	2.08	2.13	2.14	2.18	2.21	2.25	2.28	2.31	2.34	2.36	2.39	2.41	2.43	2.45	2.48	2.51	2.54	2.57	2.59	2.62	2.64	2.67	2.69	1.2%
Delivered Energy	27.20	26.89	26.94	27.20	27.35	27.64	28.14	28.58	29.04	29.37	29.67	29.92	30.10	30.37	30.55	30.86	31.21	31.59	31.92	32.08	32.32	32.56	32.85	33.13	1.0%
Electricity Related Losses	7.81	7.95	7.90	7.96	7.97	8.12	8.28	8.33	8.42	8.47	8.52	8.58	8.57	8.60	8.62	8.66	8.73	8.79	8.86	8.85	8.87	8.92	8.96	9.02	0.6%
Total	35.01	34.84	34.84	35.16	35.32	35.77	36.42	36.91	37.46	37.84	38.19	38.50	38.68	38.97	39.17	39.52	39.93	40.38	40.78	40.93	41.19	41.48	41.81	42.16	0.9%
Consumption per Unit of Output 1/ (thousand Btu per 1987 dollar)																									
Purchased Electricity	0.88	0.87	0.85	0.85	0.84	0.83	0.83	0.83	0.82	0.82	0.81	0.81	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.77	0.77	0.77	0.76	0.76	-0.6%
Natural Gas 2/	2.49	2.36	2.27	2.28	2.24	2.21	2.20	2.18	2.18	2.18	2.15	2.14	2.12	2.11	2.10	2.08	2.07	2.05	2.03	2.02	2.01	1.99	1.97	1.96	-0.9%
Steam Coal	0.39	0.37	0.37	0.36	0.36	0.35	0.34	0.34	0.33	0.33	0.32	0.31	0.31	0.30	0.30	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.26	0.26	-1.6%
Metallurgical Coal and Coke 3/	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13	-2.0%
Residual Fuel	0.07	0.06	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	-2.1%
Distillate	0.28	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	-0.6%
Liquefied Petroleum Gas	0.54	0.50	0.52	0.51	0.51	0.50	0.49	0.48	0.48	0.47	0.46	0.46	0.46	0.46	0.46	0.45	0.45	0.44	0.44	0.44	0.43	0.43	0.43	0.42	-0.7%
Petrochemical Feedstocks	0.35	0.34	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.28	-0.8%
Other Petroleum 4/	1.08	1.05	1.07	1.10	1.09	1.06	1.04	1.02	1.01	0.99	0.98	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	-1.0%
Renewables 5/	0.51	0.51	0.51	0.51	0.51	0.50	0.49	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.45	0.44	0.44	0.44	0.44	-0.7%
Delivered Energy	6.81	6.52	6.42	6.41	6.35	6.25	6.18	6.14	6.09	6.05	5.99	5.93	5.88	5.83	5.79	5.74	5.68	5.63	5.57	5.54	5.49	5.45	5.41	5.37	-0.9%
Electricity Related Losses	1.96	1.93	1.88	1.88	1.85	1.84	1.82	1.79	1.77	1.74	1.72	1.70	1.67	1.65	1.63	1.61	1.59	1.57	1.55	1.53	1.51	1.49	1.48	1.46	-1.2%
Total	8.77	8.44	8.30	8.29	8.20	8.09	8.00	7.92	7.85	7.79	7.71	7.62	7.55	7.48	7.42	7.35	7.27	7.20	7.12	7.06	7.00	6.94	6.88	6.84	-1.0%

1/ Fuel consumption includes consumption for cogeneration.

2/ Includes lease and plant fuel.

3/ Includes net coke coal imports.

4/ Includes petroleum coke, asphalt, road oil, lubricants, motor gasoline, still gas, and miscellaneous petroleum products.

5/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.

Btu = British thermal unit.

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**Table 6. Industrial Sector Key Indicators and Consumption (2 of 2)**  
**(Quadrillion Btu per year, Unless otherwise noted)**

Sources: 1997 prices for gasoline and distillate are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 1997 . Online. [ftp://ftp.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/historical/1997/pdf/pmaall.pdf](ftp://ftp.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/historical/1997/pdf/pmaall.pdf) (September 1, 1999). 1998 prices for gasoline and distillate are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1997 and 1998 coal prices: EIA, Monthly Energy Review, DOE/EIA-0035(99/08) (Washington, DC, August 1999). 1997 and 1998 electricity prices: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A. Other 1997 values and other 1998 prices derived from EIA, State Energy Data Report 1996 , DOE/EIA-0214(96) (Washington, DC, February 1999). Other 1998 values: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption (1 of 2)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
<b>Key Indicators</b>																									
Level of Travel (billions)																									
Light-Duty Veh. < 8500 lbs. (VMT)	2272	2403	2463	2503	2563	2618	2671	2727	2777	2828	2877	2924	2970	3015	3054	3096	3140	3186	3234	3274	3315	3358	3403	3448	1.7%
Comm. Light Trucks (VMT) 1/	70	72	73	74	76	78	79	81	83	84	86	87	88	90	91	92	94	96	97	98	100	101	103	104	1.7%
Freight Trucks > 10000 lbs.(VMT)	161	184	190	193	197	202	207	211	214	217	220	223	225	228	229	232	236	239	243	245	247	250	253	256	1.5%
Air (seat miles available)	1044	1061	1109	1146	1192	1243	1305	1371	1429	1497	1555	1621	1680	1751	1804	1874	1942	2023	2092	2158	2224	2300	2372	2437	3.8%
Rail (ton miles traveled)	1316	1246	1262	1285	1313	1338	1358	1385	1405	1429	1450	1458	1471	1487	1508	1523	1541	1558	1580	1600	1620	1637	1655	1673	1.4%
Marine (ton miles traveled)	693	692	699	707	709	714	725	733	742	751	760	769	776	786	792	802	813	825	838	844	852	860	867	874	1.1%
<b>Energy Efficiency Indicators</b>																									
New Light-Duty Vehicle (MPG) 2/	23.9	24.2	24.2	24.5	24.5	24.6	25.1	25.1	25.2	25.3	25.4	25.6	25.8	26.0	26.3	26.5	26.6	26.7	26.7	26.8	26.9	27.0	27.0	27.0	0.5%
New Car (MPG) 2/	27.9	28.2	28.4	29.0	29.1	29.3	30.3	30.3	30.5	30.7	31.1	31.4	31.6	32.0	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	0.6%
New Light Truck (MPG) 2/	20.2	20.6	20.4	20.7	20.7	20.9	21.2	21.1	21.2	21.4	21.4	21.5	21.6	21.9	22.1	22.3	22.4	22.6	22.7	22.8	23.0	23.1	23.2	23.2	0.5%
Light-Duty Fleet (MPG) 3/	20.6	20.7	20.7	20.6	20.6	20.5	20.6	20.6	20.6	20.6	20.5	20.6	20.6	20.6	20.6	20.6	20.7	20.7	20.7	20.8	20.8	20.8	20.9	20.9	0.1%
New Comm. Light Truck (MPG) 1/	19.9	20.4	20.0	20.3	20.3	20.4	20.7	20.6	20.7	20.8	20.8	20.9	21.0	21.2	21.5	21.6	21.8	21.9	22.0	22.1	22.2	22.4	22.5	22.5	0.4%
Stock Comm. Light Truck (MPG)1/	14.6	14.7	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.6	15.7	15.8	15.9	16.0	16.1	16.1	16.2	16.3	16.4	16.5	16.5	16.6	16.7	0.6%
Aircraft Efficiency (seat miles/gal.)	51.0	51.4	51.8	52.2	52.6	53.0	53.4	53.9	54.3	54.7	55.1	55.6	56.0	56.5	56.9	57.4	57.8	58.3	58.7	59.1	59.5	59.9	60.3	60.7	0.8%
Freight Truck Efficiency (MPG)	5.1	5.6	5.7	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	6.0	6.0	6.1	6.1	6.1	6.2	6.2	6.3	6.3	6.4	6.4	6.5	0.6%
Rail Efficiency (ton miles/mmBtu)	2.7	2.7	2.8	2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.4	1.0%	
<b>Domestic Shipping Efficiency</b>																									
(ton miles per thousand Btu)	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.2	1.2%	
<b>Energy Use by Mode(quadrillion Btu)</b>																									
Light-Duty Vehicles	14.16	14.64	14.89	15.23	15.59	15.93	16.18	16.53	16.82	17.13	17.43	17.70	17.96	18.21	18.42	18.63	18.85	19.10	19.34	19.54	19.74	19.95	20.17	20.41	1.5%
Commercial Light Trucks 1/	0.60	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.69	0.70	0.71	0.71	0.72	0.73	0.74	0.75	0.75	0.76	0.76	0.77	0.78	1.1%
Freight Trucks 4/	4.06	4.35	4.44	4.49	4.55	4.62	4.70	4.77	4.84	4.88	4.92	4.95	4.97	4.99	5.00	5.03	5.06	5.10	5.14	5.15	5.17	5.19	5.20	5.22	0.8%
Air	3.35	3.40	3.50	3.59	3.68	3.79	3.92	4.06	4.19	4.34	4.46	4.60	4.72	4.87	4.97	5.10	5.24	5.39	5.53	5.65	5.77	5.91	6.05	6.16	2.7%
Rail 5/	0.59	0.56	0.56	0.57	0.57	0.58	0.58	0.59	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.64	0.6%
Marine 6/	1.25	1.17	1.19	1.21	1.23	1.25	1.28	1.31	1.34	1.37	1.40	1.43	1.46	1.50	1.52	1.55	1.59	1.62	1.65	1.68	1.71	1.74	1.77	1.80	2.0%
Pipeline Fuel	0.77	0.75	0.78	0.78	0.76	0.76	0.76	0.76	0.77	0.79	0.81	0.83	0.85	0.87	0.88	0.90	0.91	0.93	0.95	0.96	0.97	0.98	0.99	1.3%	
Other 7/	0.20	0.26	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	1.0%	
Total	24.99	25.74	26.25	26.77	27.30	27.86	28.38	28.98	29.53	30.11	30.64	31.14	31.59	32.10	32.46	32.89	33.34	33.86	34.34	34.72	35.12	35.54	35.96	36.39	1.6%
<b>Energy Use by Mode 8/</b>																									
(million barrels per day)																									
Light-Duty Vehicles	7.38	7.63	7.77	8.02	8.21	8.40	8.51	8.70	8.86	9.03	9.19	9.33	9.47	9.61	9.73	9.84	9.96	10.09	10.21	10.32	10.43	10.54	10.66	10.78	1.6%
Commercial Light Trucks 1/	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.39	0.40	0.40	0.40	0.41	1.1%
Freight Trucks 4/	1.83	1.97	2.01	2.03	2.06	2.09	2.13	2.16	2.19	2.21	2.23	2.24	2.25	2.26	2.27	2.28	2.30	2.31	2.33	2.34	2.35	2.35	2.36	2.37	0.8%
Railroad	0.23	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.3%	
Domestic Shipping	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	-0.2%	
International Shipping	0.31	0.28	0.29	0.30	0.31	0.32	0.33	0.35	0.36	0.37	0.38	0.40	0.41	0.42	0.44	0.45	0.46	0.48	0.49	0.50	0.51	0.52	0.54	3.1%	
Air Transportation	1.39	1.42	1.48	1.51	1.56	1.61	1.68	1.75	1.81	1.88	1.93	2.00	2.06	2.13	2.17	2.24	2.30	2.38	2.44	2.50	2.56	2.63	2.69	2.74	3.0%
Military Use	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.3%	
Bus Transportation	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.0%	
Rail Transportation 5/	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	1.6%	
Recreational Boats	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.8%	
Lubricants	0.09	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	1.0%	
Pipeline Fuel	0.39	0.38	0.39	0.40	0.38	0.38	0.38	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.45	0.46	0.47	0.48	0.48	0.49	0.49	0.50	0.50	1.3%
Total	12.58	12.97	13.23	13.56	13.83	14.12	14.36	14.67	14.95	15.24	15.52	15.77	16.00	16.25	16.44	16.66	16.89	17.15	17.39	17.58	17.78	17.99	18.20	18.42	1.6%

1/ Commercial trucks 8,500 to 10,000 pounds.

2/ Environmental Protection Agency rated miles per gallon.

3/ Combined car and light truck "on-the-road" estimate.

4/ Includes energy use by buses and military distillate consumption.

5/ Includes passenger rail.

6/ Includes military residual fuel use and recreation boats.

7/ Includes lubricants and aviation gasoline.

8/ Nonpetroleum fuels converted to crude oil equivalent.

Btu = British thermal unit.

## Table 7. Transportation Sector Key Indicators and Delivered Energy Consumption (2 of 2)

VMT=Vehicle miles traveled.

MPG = Miles per gallon.

Lbs. = pounds.

Veh. = Vehicle.

Comm. = Commercial.

Gal. = Gallon.

mmBtu = Thousand Btu.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997: Energy Information Administration (EIA), Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998); Federal Highway Administration, Highway Statistics 1997 (Washington, DC, 1997); Oak Ridge National Laboratory, Transportation Energy Data Book: 12, 13, 14, 15, 16, 17, and 18, (Oak Ridge, TN, August 1998); National Highway Traffic and Safety Administration, Summary of Fuel Economy Performance, (Washington, DC, February 1998); EIA, Household Vehicle Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); U.S. Dept. of Commerce, Bureau of the Census, "Truck Inventory and Use Survey", TC92-T-52, (Washington DC, May 1995); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives To Traditional Transportation Fuels 1996, DOE/EIA-0585(96) (Washington, DC, December 1997); and EIA, State Energy Data Report 1996 , DOE/EIA-0214(96) (Washington, DC, February 1999).

1998: U.S. Department of Transportation, Bureau of Transportation Statistics, Air Carrier Statistics Monthly, December 1998/1997, (Washington, DC, 1998); EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999); EIA, Fuel Oil and Kerosene Sales 1997, DOE/EIA-0535(97) (Washington, DC, August 1998); and United States Department of Defense, Defense Fuel Supply Center. Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 8. Electricity Supply, Disposition, Prices, and Emissions (1 of 2)**  
**(Billion Kilowatthours, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Generation by Fuel Type																										
Electric Generators 1/																										
Coal	1798	1817	1827	1878	1929	1971	2013	2058	2077	2090	2101	2120	2114	2114	2129	2141	2158	2174	2203	2215	2237	2255	2285	2312	1.1%	
Petroleum	81	114	114	63	59	49	44	40	35	30	26	24	20	20	17	16	15	15	14	15	15	14	14	14	-9.0%	
Natural Gas	299	325	346	426	414	430	458	486	540	591	653	694	754	820	869	917	968	1028	1100	1138	1182	1216	1234	1247	6.3%	
Nuclear Power	629	674	698	688	690	691	691	681	674	656	644	643	643	627	612	604	586	559	510	490	461	444	435	433	-2.0%	
Pumped Storage	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-3.8%	
Renewable Sources 2/	394	360	347	348	355	359	360	364	366	370	372	376	379	381	382	383	386	387	387	388	390	391	393	394	0.4%	
Total	3198	3288	3331	3401	3447	3500	3564	3628	3691	3737	3794	3855	3908	3961	4008	4061	4113	4162	4213	4246	4284	4320	4360	4400	1.3%	
Non-Utility Gen. for Own Use	8	10	12	12	13	14	14	14	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	2.2%	
Cogenerators 3/																										
Coal	52	52	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	-0.1%	
Petroleum	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-0.7%	
Natural Gas	194	195	193	195	196	197	198	199	200	201	202	203	205	206	208	209	211	212	214	216	218	219	221	222	0.6%	
Other Gaseous Fuels 4/	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	4.0%	
Renewable Sources 2/	40	40	40	41	42	43	44	44	45	46	47	48	48	49	49	50	51	52	52	53	54	54	55	55	1.5%	
Other 5/	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0.3%	
Total	304	306	301	307	309	311	313	314	316	318	320	322	325	327	329	331	334	336	339	342	344	347	349	351	0.6%	
Sales to Utilities	146	148	145	146	147	148	149	150	151	152	153	155	156	157	158	160	161	163	164	166	167	168	169	170	0.6%	
Generation for Own Use	166	165	161	165	167	168	169	170	170	171	172	173	174	175	175	177	177	179	180	181	182	184	185	185	0.5%	
Other Generators 6/	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	-1.3%	
Net Imports 7/	32	30	47	41	40	51	50	46	43	46	39	34	32	26	26	21	20	19	19	21	21	22	23	20	-1.8%	
Electricity Sales by Sector																										
Residential	1076	1124	1143	1184	1202	1221	1240	1262	1279	1296	1314	1339	1356	1375	1393	1414	1428	1445	1462	1482	1494	1511	1529	1551	1.5%	
Commercial	1027	1045	1076	1096	1115	1135	1151	1167	1185	1201	1218	1236	1256	1270	1290	1305	1319	1330	1339	1347	1354	1359	1364	1367	1.2%	
Industrial	1033	1047	1048	1057	1060	1081	1108	1130	1152	1166	1182	1196	1205	1217	1229	1245	1264	1285	1303	1313	1328	1343	1360	1376	1.2%	
Transportation	19	20	20	21	21	22	24	26	28	30	31	33	34	36	38	39	41	42	43	45	46	47	48	49	4.2%	
Total	3155	3236	3288	3357	3398	3459	3522	3585	3644	3693	3745	3804	3852	3898	3948	4003	4052	4102	4147	4186	4221	4259	4300	4343	1.3%	
End-Use Prices(1998 cents/kwh) 8/																										
Residential	8.4	8.0	7.9	7.9	7.8	7.7	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.3	7.3	-0.4%	
Commercial	7.6	7.4	7.3	7.3	7.1	6.9	6.8	6.8	6.7	6.7	6.6	6.6	6.5	6.5	6.4	6.4	6.3	6.4	6.3	6.3	6.3	6.3	6.2	6.3	-0.8%	
Industrial	4.6	4.5	4.4	4.5	4.4	4.3	4.2	4.2	4.1	4.1	4.1	4.1	4.0	4.1	4.0	4.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	-0.6%	
Transportation	5.6	5.6	5.5	5.4	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.8	4.8	4.9	4.8	4.8	4.7	4.7	4.7	4.7	4.6	4.6	4.6	4.6	-0.9%	
All Sectors Average	6.9	6.7	6.6	6.6	6.5	6.3	6.3	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.0	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	-0.6%	
Emissions (million short tons)																										
Sulfur Dioxide	12.79	13.04	13.31	11.65	11.35	11.05	10.85	10.52	10.36	10.22	9.67	10.48	9.65	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	-1.7%	
Nitrogen Oxide	6.0	6.0	5.8	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.6	5.7	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	-0.1%	

1/ Includes grid-connected generation at all utilities and nonutilities except for cogenerators. Includes small power producers and exempt wholesale generators.

2/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar, and wind power.

3/ Cogenerators produce electricity and other useful thermal energy. Includes sales to utilities and generation for own use.

4/ Other gaseous fuels include refinery and still gas.

5/ Other includes hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.

6/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ In 1998 approximately 70 percent of the U.S. electricity imports were provided by renewable sources (hydroelectricity); EIA does not project future proportions for the fuel source of imported electricity.

8/ Prices represent average revenue per kilowatthour.

Kwh = Kilowatthour.

Gen. = Generation.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

**Table 8. Electricity Supply, Disposition, Prices, and Emissions (2 of 2)**  
**(Billion Kilowatthours, Unless Otherwise Noted)**

Sources: 1997 and 1998 commercial and transportation sales derived from: Energy Information Administration (EIA), State Energy Data Report 1996 , DOE/EIA-0214(96) (Washington, DC, February 1999), but individual sectors do not match because sales taken from commercial and placed in transportation, according to Oak Ridge National Laboratories, Transportation Energy Data Book 17 (July 1996) which indicates the transportation value should be higher. 1997 and 1998 generation by electric utilities, nonutilities, and cogenerators, net electricity imports, residential sales, and industrial sales: EIA, Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). 1997 and 1998 residential electricity prices derived from EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999). 1997 and 1998 electricity prices for commercial, industrial, and transportation; emissions; and projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 9. Electricity Generating Capability (1 of 2)**  
**(Gigawatts)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Electric Generators 2/																										
Capability																										
Coal Steam	305.1	305.2	306.3	306.3	306.3	306.4	303.5	302.0	302.0	301.8	301.0	300.7	300.5	301.5	302.3	303.1	304.5	305.4	307.5	308.8	310.9	312.3	316.2	319.5	0.2%	
Other Fossil Steam 3/	137.5	138.2	137.9	137.0	137.0	136.9	129.4	121.7	118.9	114.9	113.5	113.0	112.6	111.6	111.5	110.5	110.4	109.0	108.3	105.0	105.0	104.1	102.4	100.7	-1.4%	
Combined Cycle	18.3	19.5	20.1	25.0	29.2	36.0	41.6	54.6	64.6	73.0	78.5	84.6	93.7	98.7	105.0	110.1	116.0	122.2	128.7	137.3	143.2	149.2	153.4	156.8	10.0%	
Combustion Turbine/Diesel	66.3	73.2	77.7	80.4	85.0	89.8	99.8	104.1	112.8	120.9	132.4	141.6	146.7	151.0	158.2	163.2	169.8	174.4	181.3	187.2	193.1	197.7	200.8	202.1	4.7%	
Nuclear Power	99.7	97.1	97.4	97.5	97.5	97.5	95.0	93.4	93.4	89.0	88.2	88.2	87.1	84.1	83.4	81.5	78.2	70.4	67.4	62.6	60.6	59.0	59.0	57.8	-2.3%	
Pumped Storage	19.6	19.9	19.9	19.9	19.9	19.9	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	N/A	
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	26.6%
Renewable Sources 4/	86.7	87.2	87.9	88.1	89.3	90.0	90.3	90.7	91.1	91.7	92.3	93.1	93.5	93.8	94.2	94.7	94.9	95.1	95.4	95.7	96.0	96.2	96.5	96.8	0.5%	
Total	733.2	740.2	747.2	754.2	764.3	776.4	779.6	786.5	802.7	811.4	825.9	841.2	854.1	860.8	874.6	883.1	893.8	896.5	908.6	916.8	929.0	938.6	948.4	953.9	1.2%	
Cumulative Planned Additions 5/																										
Coal Steam	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A
Other Fossil Steam 3/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Combined Cycle	0.0	0.0	0.6	3.2	4.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	N/A
Combustion Turbine/Diesel	0.0	0.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	N/A
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewable Sources 4/	0.0	0.0	0.7	0.9	1.3	1.8	2.0	2.4	2.7	3.2	3.5	4.2	4.5	4.8	5.2	5.5	5.5	5.6	5.7	5.9	5.9	5.9	5.9	5.9	5.9	N/A
Total	0.0	0.0	2.6	5.6	7.1	8.0	8.3	8.7	8.9	9.4	9.8	10.4	10.7	11.1	11.5	11.8	11.8	11.9	12.0	12.2	12.2	12.2	12.2	12.2	12.2	N/A
Cumulative Unplanned Additions 5/																										
Coal Steam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	1.1	1.7	2.0	2.3	3.3	4.3	5.0	6.5	7.9	9.9	11.3	13.4	16.1	20.0	23.3	N/A	
Other Fossil Steam 3/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Combined Cycle	0.0	0.0	0.0	2.3	5.4	11.9	17.4	30.5	40.5	48.9	54.4	60.5	69.6	74.6	80.9	85.9	91.9	98.0	104.6	113.2	119.1	125.0	129.3	132.7	N/A	
Combustion Turbine/Diesel	0.0	0.0	2.4	4.8	9.5	14.4	25.0	29.6	39.1	47.6	59.1	68.9	74.1	78.7	86.0	91.0	97.6	102.5	109.4	115.3	121.2	125.8	128.9	130.4	N/A	
Nuclear Power	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Pumped Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Fuel Cells	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Renewable Sources 4/	0.0	0.0	0.0	0.0	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.9	2.0	2.2	2.5	2.6	2.8	3.2	3.4	3.6	3.9	3.9	N/A
Total	0.0	0.0	2.4	7.1	15.6	27.1	43.4	61.1	81.4	98.7	116.5	132.9	147.6	158.4	173.0	183.9	198.2	210.9	226.6	242.7	256.8	270.3	281.8	290.2	N/A	
Cumulative Total Additions	0.0	0.0	5.1	12.7	22.7	35.1	51.7	69.8	90.3	108.1	126.3	143.4	158.4	169.5	184.4	195.8	210.0	222.8	238.6	254.8	269.0	282.5	294.0	302.5	N/A	
Cumulative Retirements 6/	0.0	0.0	0.3	1.4	4.1	4.6	18.6	30.5	34.9	44.3	47.9	49.6	51.8	56.1	57.3	60.2	63.8	73.8	77.6	85.6	87.5	91.4	93.1	96.1	N/A	
Cogenerators 7/																										
Capability																										
Coal	8.8	8.8	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	0.1%
Petroleum	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1%
Natural Gas	30.9	31.8	32.7	33.7	35.3	35.4	35.5	35.6	35.8	35.9	36.1	36.3	36.4	36.6	36.8	37.0	37.2	37.4	37.6	37.9	38.1	38.3	38.4	38.6	0.9%	
Other Gaseous Fuels	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	3.7%
Renewables 4/	6.5	6.6	6.6	6.6	6.8	7.0	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.4	8.5	8.7	8.8	8.9	9.0	9.1	9.3	1.6%	
Other	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.3%
Total	49.2	50.3	51.4	52.8	54.5	54.8	55.1	55.4	55.7	55.9	56.2	56.6	56.9	57.2	57.5	57.8	58.1	58.5	59.0	59.3	59.7	60.0	60.3	60.6	0.9%	
Cumulative Additions 5/	0.0	0.0	1.1	2.5	4.2	4.5	4.8	5.1	5.4	5.7	5.9	6.3	6.6	6.9	7.2	7.5	7.8	8.3	8.7	9.0	9.4	9.7	10.0	10.3	N/A	
Other Generators 8/																										
Capability	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8	2.3%	
Cumulative Additions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	N/A	

## **Table 9. Electricity Generating Capability (2 of 2) (Gigawatts)**

1/ Net summer capability is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand.

2/ Includes grid-connected utilities and nonutilities except for cogenerators. Includes small power producers and exempt wholesale generators.

3/ Includes oil-, gas-, and dual-fired capability.

4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, landfill gas, other biomass, solar and wind power.

5/ Cumulative additions after December 31, 1998.

6/ Cumulative total retirements after December 31, 1998.

7/ Nameplate capacity is reported for nonutilities on Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to the net summer capability based on historic relationships.

8/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports. Net summer capability has been estimated for nonutility generators for AEO2000. Net summer capacity is used to be consistent with electric utility capacity estimates.

Sources: 1997 and 1998 net summer capability at electric utilities and planned additions: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report." Net summer capability for nonutilities and cogeneration in 1997 and 1998 and planned additions estimated based on EIA, Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 10. Electricity Trade (1 of 1)**  
**(Billion Kilowatthours, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Interregional Electricity Trade																										
Gross Domestic Firm Power Sales	190.3	202.4	188.2	177.7	167.2	163.2	155.6	152.3	143.1	136.7	134.8	124.0	113.2	102.4	91.6	80.9	70.1	59.3	48.5	37.7	27.0	16.2	5.4	0.0	N/A	
Gross Domestic Economy Sales	208.8	144.1	148.8	161.6	181.4	190.8	200.8	208.1	206.9	213.4	208.2	215.4	211.4	208.1	206.5	205.9	202.4	201.3	188.1	191.1	185.0	184.4	186.6	187.0	1.1%	
Gross Domestic Trade	399.1	346.4	337.0	339.4	348.5	354.0	356.4	360.4	350.0	350.1	343.0	339.3	324.6	310.6	298.1	286.8	272.5	260.6	236.6	228.8	212.0	200.6	192.0	187.0	-2.8%	
Gross Domestic Firm Power Sales (million 1998 dollars)	9033.3	9607.3	8933.1	8435.7	7935.9	7745.9	7385.4	7227.7	6792.9	6488.0	6397.8	5885.9	5374.1	4862.3	4350.5	3838.7	3326.8	2815.0	2303.2	1791.4	1279.6	767.7	255.9	0.0	N/A	
Gross Domestic Economy Sales (million 1998 dollars)	7264.3	4260.3	4432.7	5606.3	5897.5	5955.7	6199.9	6455.6	6470.3	6723.3	6697.1	6879.6	6851.9	6902.3	6817.4	6770.2	6598.6	6528.6	6118.4	6152.5	5952.2	5917.7	5948.1	5977.0	1.5%	
Gross Domestic Sales (million 1998 dollars)	16298	13868	13366	14042	13833	13702	13585	13683	13263	13211	13095	12766	12226	11765	11168	10609	9925	9344	8422	7944	7232	6685	6204	5977	-3.8%	
International Electricity Trade																										
F. Power Imp.From Can.&Mex.1/	18.9	19.0	27.0	23.6	15.2	13.2	13.2	11.6	7.2	6.0	6.0	5.5	5.0	4.6	4.1	3.6	3.1	2.6	2.2	1.7	1.2	0.7	0.2	0.0	N/A	
Economy Imp. From Can. &Mex.1/	29.0	26.5	35.4	32.0	40.2	53.1	56.8	54.9	56.4	60.4	54.5	48.4	45.6	39.3	39.2	33.4	31.8	29.7	29.4	30.5	30.2	30.6	30.8	27.9	0.2%	
Gross Imp. From Can. & Mex.1/	47.8	45.4	62.4	55.6	55.4	66.3	70.0	66.5	63.6	66.4	60.5	53.9	50.6	43.8	43.2	37.0	34.9	32.4	31.6	32.1	31.4	31.3	31.0	27.9	-2.2%	
F. Power Exp. To Canada & Mex.	0.3	0.3	9.2	8.6	8.5	8.5	13.7	13.7	13.7	13.7	12.6	11.5	10.4	9.3	8.2	7.1	6.0	4.9	3.8	2.7	1.6	0.5	0.0	N/A		
Economy Exp. To Canada & Mex.	15.2	15.0	6.3	6.4	6.5	6.6	6.7	6.9	7.0	7.1	7.2	7.4	7.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	-3.0%	
Gross Exp. To Canada & Mex.	15.6	15.4	15.5	15.0	15.1	15.2	20.5	20.6	20.7	20.8	21.0	20.0	19.1	18.1	17.0	15.9	14.8	13.7	12.6	11.5	10.4	9.3	8.2	7.7	-3.1%	

1/ Historically electricity imports were primarily from renewable resources, principally hydroelectric.

N/A = Not applicable.

F. = Firm.

Can. = Canada.

Mex. = Mexico.

Imp. = Imports.

Exp. = Exports.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports. Firm Power Sales are capacity sales, meaning the delivery of the power is scheduled as part of the normal operating conditions of the affected electric systems. Economy Sales are subject to curtailment or cessation of delivery by the supplier in accordance with prior agreements or under specified conditions.

Sources: 1997 and 1998 interregional firm electricity trade data: North America Electricity Reliability Council (NERC), Electricity Sales and Demand Database 1998. 1997 and 1998 international electricity trade data: DOE Form FE-718R, "Annual Report of International Electrical Export/Import Data." 1997 and 1998 firm/economy share: National Energy Board, Annual Report 1998. Projections: Energy Information Administration, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 11. Petroleum Supply and Disposition Balance (1 of 2)**  
**(Million Barrels per Day, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Crude Oil																										
Domestic Crude Production 1/	6.45	6.25	6.02	6.00	5.91	5.72	5.64	5.58	5.53	5.48	5.44	5.44	5.46	5.50	5.55	5.61	5.69	5.74	5.80	5.91	5.96	6.01	6.02	6.02	-0.2%	
Alaska	1.30	1.18	1.09	0.98	1.10	1.07	1.04	1.01	0.98	0.95	0.91	0.88	0.86	0.83	0.80	0.77	0.74	0.70	0.65	0.65	0.62	0.58	0.55	0.53	-3.6%	
Lower 48 States	5.15	5.08	4.93	5.02	4.81	4.65	4.60	4.58	4.55	4.53	4.53	4.56	4.60	4.67	4.75	4.84	4.94	5.04	5.15	5.26	5.35	5.42	5.46	5.49	0.4%	
Net Imports	8.12	8.60	8.66	9.12	9.32	9.75	10.05	10.35	10.57	10.82	11.01	11.12	11.12	11.10	11.06	11.03	10.97	10.96	10.94	10.87	10.85	10.86	10.88	10.88	1.1%	
Gross Imports	8.23	8.70	8.76	9.19	9.38	9.80	10.10	10.40	10.61	10.86	11.05	11.16	11.16	11.14	11.10	11.07	11.02	11.01	10.99	10.93	10.91	10.92	10.94	10.94	1.0%	
Exports	0.11	0.11	0.10	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	-2.4%	
Other Crude Supply 2/	0.09	0.04	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A		
Total Crude Supply	14.66	14.89	14.93	15.12	15.23	15.47	15.69	15.94	16.10	16.30	16.45	16.56	16.58	16.60	16.61	16.64	16.65	16.71	16.74	16.78	16.81	16.86	16.89	16.90	0.6%	
Natural Gas Plant Liquids	1.82	1.76	1.76	1.79	1.74	1.73	1.76	1.77	1.81	1.86	1.91	1.95	2.00	2.06	2.10	2.14	2.18	2.22	2.28	2.30	2.32	2.35	2.36	2.38	1.4%	
Other Inputs 3/	0.29	0.25	0.54	0.28	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.36	0.36	1.8%	
Refinery Processing Gain 4/	0.85	0.89	0.86	1.02	1.01	1.01	1.02	1.06	1.08	1.11	1.13	1.15	1.17	1.17	1.17	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.3%	
Net Product Imports 5/	1.04	1.17	1.20	1.13	1.36	1.36	1.37	1.40	1.45	1.44	1.47	1.56	1.69	1.85	1.98	2.15	2.33	2.51	2.69	2.85	3.00	3.16	3.36	3.59	5.2%	
Gross Refined Product Imp. 6/	1.52	1.63	1.67	1.42	1.64	1.61	1.73	1.76	1.78	1.78	1.78	1.85	1.96	2.11	2.23	2.41	2.60	2.80	2.98	3.14	3.31	3.48	3.68	3.91	4.0%	
Unfinished Oil Imports	0.35	0.30	0.31	0.47	0.48	0.52	0.55	0.58	0.60	0.61	0.65	0.67	0.67	0.67	0.67	0.68	0.68	0.69	0.69	0.71	0.71	0.72	0.73	0.73	4.1%	
Ether Imports	0.06	0.07	0.07	0.10	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Exports	0.90	0.83	0.85	0.86	0.86	0.88	0.91	0.94	0.93	0.95	0.97	0.96	0.94	0.93	0.92	0.94	0.95	0.97	0.98	1.00	1.03	1.05	1.05	1.05	1.0%	
Total Primary Supply 7/	18.65	18.95	19.29	19.33	19.61	19.87	20.14	20.47	20.76	21.03	21.30	21.56	21.77	22.03	22.21	22.45	22.70	22.99	23.25	23.46	23.68	23.91	24.16	24.41	1.2%	
Refined Petroleum Products Supplied																										
Motor Gasoline 8/	7.98	8.25	8.37	8.60	8.78	8.94	9.03	9.20	9.34	9.49	9.64	9.77	9.89	10.01	10.11	10.20	10.31	10.42	10.53	10.63	10.72	10.83	10.94	11.06	1.3%	
Jet Fuel 9/	1.60	1.62	1.67	1.71	1.76	1.81	1.87	1.94	2.00	2.07	2.13	2.20	2.26	2.33	2.37	2.44	2.50	2.58	2.64	2.70	2.76	2.82	2.89	2.94	2.7%	
Distillate Fuel 10/	3.42	3.45	3.51	3.50	3.53	3.57	3.62	3.67	3.71	3.74	3.76	3.78	3.78	3.81	3.82	3.84	3.87	3.90	3.94	3.95	3.97	3.99	4.02	4.04	0.7%	
Residual Fuel	0.86	0.95	0.96	0.70	0.69	0.65	0.64	0.64	0.63	0.62	0.61	0.61	0.60	0.61	0.61	0.63	0.64	0.65	0.66	0.67	0.68	0.68	0.69	0.70	-1.3%	
Other 11/	4.74	4.67	4.82	4.88	4.92	4.96	5.01	5.07	5.12	5.15	5.20	5.24	5.27	5.31	5.33	5.37	5.42	5.47	5.51	5.53	5.56	5.59	5.64	5.68	0.9%	
Total	18.59	18.94	19.33	19.39	19.68	19.93	20.18	20.52	20.80	21.07	21.34	21.60	21.80	22.06	22.24	22.48	22.73	23.02	23.28	23.47	23.69	23.92	24.17	24.42	1.2%	
Refined Petroleum Products Supplied																										
Residential and Commercial	1.14	1.06	1.09	1.06	1.05	1.04	1.04	1.03	1.02	1.01	1.01	1.00	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.90	-0.8%	
Industrial 12/	4.91	4.80	4.94	4.97	5.02	5.06	5.13	5.19	5.25	5.29	5.35	5.39	5.42	5.46	5.50	5.55	5.61	5.67	5.72	5.75	5.79	5.83	5.88	5.93	1.0%	
Transportation	12.15	12.54	12.77	13.08	13.34	13.61	13.83	14.12	14.37	14.63	14.88	15.11	15.31	15.54	15.70	15.90	16.11	16.34	16.56	16.74	16.93	17.13	17.33	17.53	1.5%	
Electric Generators 13/	0.38	0.54	0.53	0.29	0.27	0.22	0.19	0.18	0.15	0.13	0.11	0.10	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-9.5%		
Total	18.59	18.94	19.33	19.39	19.68	19.93	20.18	20.52	20.80	21.07	21.34	21.60	21.80	22.06	22.24	22.48	22.73	23.02	23.28	23.47	23.69	23.92	24.17	24.42	1.2%	
Discrepancy 14/	0.06	0.01	-0.04	-0.06	-0.06	-0.06	-0.04	-0.04	-0.04	-0.04	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.02	-0.01	-0.01	-0.01	N/A		
W. Oil Price(1998 dollars/bbl)15/	18.71	12.10	17.13	24.23	23.75	23.45	23.57	23.82	24.16	24.72	25.14	25.56	25.94	26.31	26.71	27.07	27.36	27.63	27.86	27.94	27.97	28.00	28.03	28.04	3.9%	
Imp. Share of Product Supplied	0.49	0.52	0.51	0.53	0.54	0.56	0.57	0.57	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.58	0.58	0.59	0.59	0.6%	
Net Expenditures for Imported Crude & Petrl. Prod. (billion 98 dollars)	61.40	46.55	59.38	91.99	93.88	96.46	99.68	103.66	107.59	112.42	116.33	120.32	123.62	127.17	130.17	133.45	136.57	140.07	143.25	145.04	146.96	149.34	152.22	155.29	5.6%	
Domestic Refinery Distill. Cap.	15.9	16.3	16.3	16.3	16.7	16.9	17.1	17.4	17.5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.7	17.7	17.8	17.8	17.8	17.8	17.8	0.4%	
Capacity Utilization Rate (%)	96.0	96.0	96.0	92.9	93.5	92.7	92.9	93.2	93.0	93.6	93.9	94.5	94.6	94.7	94.7	94.9	95.0	94.7	94.7	94.6	94.8	95.1	95.3	95.3	0.0%	

1/ Includes lease condensate.

2/ Strategic petroleum reserve stock additions plus unaccounted for crude oil and crude stock withdrawals minus crude products supplied.

3/ Includes alcohols, ethers, petroleum product stock withdrawals, domestic sources of blending components, and other hydrocarbons.

4/ Represents volumetric gain in refinery distillation and cracking processes.

5/ Includes net imports of finished petroleum products, unfinished oils, other hydrocarbons, alcohols, ethers, and blending components.

6/ Includes blending components.

7/ Total crude supply plus natural gas plant liquids, other inputs, refinery processing gain, and net petroleum imports.

8/ Includes ethanol and ethers blended into gasoline.

9/ Includes naphtha and kerosene types.

10/ Includes distillate and kerosene.

**Table 11. Petroleum Supply and Disposition Balance (2 of 2)**  
**(Million Barrels per Day, Unless Otherwise Noted)**

11/ Includes aviation gasoline, liquefied petroleum gas, petrochemical feedstocks, lubricants, waxes, asphalt, road oil, still gas, special naphthas, petroleum coke, crude oil product supplied, and miscellaneous petroleum products.

12/ Includes consumption by cogenerators.

13/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

14/ Balancing item. Includes unaccounted for supply, losses and gains.

15/ Average refiner acquisition cost for imported crude oil.

16/ End-of-year capacity.

N/A = Not applicable.

Imp. = Imports.

Bbl = barrel.

Petrl. = Petroleum.

Prod. = Products.

Distill. = Distillation.

W. = World.

Cap. = Capacity.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 and 1998 product supplied data from Table A2. Other 1997 data: Energy Information Administration (EIA), Petroleum Supply Annual 1997, DOE/EIA-0340(97/1) (Washington, DC, June 1998). Other 1998 data: EIA, Petroleum Supply Annual 1998, DOE/EIA-0340(98/1) (Washington, DC, June 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 12. Petroleum Product Prices (1 of 1)**  
**(1998 Cents Per Gallon, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
World Oil Price (1998 dollars/bbl)	18.71	12.10	17.13	24.23	23.75	23.45	23.57	23.82	24.16	24.72	25.14	25.56	25.94	26.31	26.71	27.07	27.36	27.63	27.86	27.94	27.97	28.00	28.03	28.04	3.9%
Delivered Sector Product Prices																									
Residential																									
Distillate Fuel	99.0	84.9	85.0	111.9	111.8	111.3	111.9	112.5	113.2	114.3	115.6	118.0	118.9	119.9	120.8	121.4	121.9	122.4	124.4	124.9	124.9	125.0	124.9	124.8	1.8%
Liquefied Petroleum Gas	102.0	90.0	97.1	119.4	118.8	118.1	118.4	119.1	120.0	121.2	120.9	123.1	124.1	124.8	125.2	126.4	126.8	127.8	128.3	128.4	128.7	129.2	129.3	130.5	1.7%
Commercial																									
Distillate Fuel	69.7	54.4	65.2	82.1	81.9	81.3	82.0	82.5	83.3	84.3	85.6	87.9	88.8	89.7	90.5	91.0	91.5	91.9	93.8	94.3	94.2	94.4	94.3	94.3	2.5%
Residual Fuel	52.3	37.3	44.1	64.1	62.9	61.8	62.1	62.6	63.2	64.3	65.1	66.1	66.8	67.7	68.5	69.4	70.0	70.6	71.2	71.4	71.4	71.5	71.5	71.6	3.0%
Residual Fuel (1998 dollars/bbl)	21.98	15.65	18.52	26.91	26.40	25.98	26.08	26.31	26.55	27.02	27.36	27.75	28.08	28.44	28.79	29.13	29.41	29.67	29.89	29.97	30.00	30.03	30.05	30.06	3.0%
Industrial 1/																									
Distillate Fuel	72.0	55.7	66.4	83.5	83.3	82.7	83.4	83.9	84.8	85.8	87.1	89.3	90.2	91.0	91.9	92.2	92.7	93.1	95.0	95.5	95.3	95.6	95.5	95.8	2.5%
Liquefied Petroleum Gas	76.1	61.4	50.0	75.1	74.3	73.3	73.3	73.8	74.4	75.5	74.9	77.2	78.1	78.6	78.8	80.3	80.8	81.6	82.0	82.2	82.6	83.0	83.1	84.4	1.5%
Residual Fuel	46.8	37.2	38.7	56.3	55.1	54.2	54.4	54.8	55.5	56.7	57.5	58.5	59.3	60.1	61.0	62.0	62.7	63.4	63.9	64.1	64.2	64.1	64.0	64.1	2.5%
Residual Fuel (1998 dollars/bbl)	19.67	15.64	16.24	23.63	23.14	22.75	22.84	23.04	23.30	23.81	24.16	24.56	24.89	25.24	25.62	26.03	26.34	26.63	26.86	26.92	26.95	26.93	26.89	26.91	2.5%
Transportation																									
Diesel Fuel (Distillate) 2/	120.7	104.1	109.8	131.8	131.0	130.9	131.5	131.9	132.1	132.9	133.5	135.1	136.0	136.7	137.7	137.8	138.1	138.5	140.8	141.6	141.5	141.1	140.2	140.2	1.4%
Jet Fuel 3/	71.5	54.7	62.8	78.6	78.1	78.5	79.4	80.5	81.2	82.3	83.9	87.1	88.3	89.0	90.5	91.1	91.7	93.3	95.7	98.3	99.2	100.9	101.6	104.8	3.0%
Motor Gasoline 4/	126.0	106.9	116.3	136.3	134.9	133.6	135.2	136.0	136.8	137.4	139.1	140.7	141.3	142.3	142.6	143.3	143.7	144.5	144.8	143.9	143.3	143.4	143.1	142.8	1.3%
Liquefied Petroleum Gas	106.0	95.0	107.0	122.9	122.5	121.7	122.3	122.7	123.4	124.3	123.7	125.4	126.1	126.7	126.7	127.5	128.3	128.4	128.1	128.1	128.3	128.0	128.8	1.4%	
Residual Fuel	46.4	33.3	35.4	55.6	54.4	53.6	53.9	54.5	55.3	56.6	57.6	58.6	59.5	60.5	61.4	62.3	63.1	63.8	64.4	64.5	64.6	64.7	64.8	3.1%	
Residual Fuel (1998 dollars/bbl)	19.47	13.98	14.86	23.36	22.86	22.52	22.62	22.88	23.21	23.77	24.19	24.61	25.00	25.39	25.79	26.19	26.49	26.79	27.03	27.11	27.15	27.18	27.19	27.21	3.1%
Ethanol (E85)	147.3	128.6	130.1	163.7	162.1	160.6	166.5	167.2	167.8	168.9	171.1	173.2	174.1	175.5	176.2	177.3	178.0	178.8	179.6	179.5	179.3	179.8	176.1	175.9	1.4%
Mtheanol (M85)	98.3	66.0	76.8	92.9	93.6	92.5	107.9	108.4	111.3	112.4	115.2	116.2	116.9	117.7	118.5	119.2	119.7	120.3	120.6	120.5	120.4	120.3	120.1	120.0	2.8%
Electric Generators 5/																									
Distillate Fuel	64.0	44.2	59.2	76.1	76.1	75.7	76.3	76.8	77.8	79.2	80.1	81.8	82.9	83.4	84.2	84.4	84.6	84.9	86.4	86.9	86.6	86.8	86.6	87.1	3.1%
Residual Fuel	43.8	32.5	38.2	55.4	54.5	53.8	54.3	55.2	55.9	57.2	58.5	59.8	61.7	62.9	64.8	66.1	67.7	69.0	70.2	70.2	71.0	71.3	71.6	71.8	3.7%
Residual Fuel (1998 dollars/bbl)	18.38	13.67	16.05	23.28	22.88	22.59	22.80	23.19	23.47	24.02	24.57	25.13	25.92	26.40	27.20	27.78	28.43	28.98	29.48	29.50	29.81	29.95	30.07	30.16	3.7%
Refined Petroleum Product Prices 6/																									
Distillate Fuel	106.9	91.6	97.8	119.7	119.2	119.0	119.7	120.2	120.6	121.4	122.3	124.2	125.1	125.8	126.8	127.1	127.4	127.8	130.0	130.8	130.6	130.4	129.7	129.8	1.6%
Jet Fuel 3/	71.5	54.7	62.8	78.6	78.1	78.5	79.4	80.5	81.2	82.3	83.9	87.1	88.3	89.0	90.5	91.1	91.7	93.3	95.7	98.3	99.2	100.9	101.6	104.8	3.0%
Liquefied Petroleum Gas	81.1	67.0	59.3	83.8	83.1	82.1	82.2	82.7	83.4	84.5	84.0	86.1	87.0	87.4	87.6	88.9	89.3	90.0	90.4	90.5	90.7	91.1	91.1	92.3	1.5%
Motor Gasoline 4/	126.0	106.9	116.3	136.3	134.9	133.6	135.2	136.0	136.8	137.4	139.0	140.7	141.3	142.3	142.6	143.3	143.7	144.5	144.8	143.9	143.3	143.4	143.1	142.8	1.3%
Residual Fuel	45.7	33.6	37.7	56.2	55.1	54.3	54.6	55.3	56.0	57.3	58.3	59.3	60.3	61.2	62.2	63.1	63.9	64.6	65.1	65.3	65.4	65.5	65.5	65.5	3.1%
Residual Fuel (1998 dollars/bbl)	19.19	14.10	15.82	23.58	23.13	22.81	22.94	23.22	23.52	24.06	24.47	24.91	25.32	25.70	26.11	26.51	26.82	27.12	27.36	27.43	27.47	27.49	27.50	27.51	3.1%
Average	104.6	87.4	93.8	115.5	114.6	113.9	115.0	115.7	116.4	117.2	118.4	120.3	121.1	121.9	122.5	123.1	123.4	124.2	125.1	125.1	124.9	124.9	125.3	1.7%	

1/ Includes cogenerators. Includes Federal and State taxes while excluding county and state taxes.

2/ Low sulfur diesel fuel. Includes Federal and State taxes while excluding county and local taxes.

3/ Kerosene-type jet fuel.

4/ Sales weighted-average price for all grades. Includes Federal and State taxes while excluding county and local taxes.

5/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

6/ Weighted averages of end-use fuel prices are derived from the prices in each sector and the corresponding sectoral consumption.

Bbl = Barrel.

Note: Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 prices for gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 1997 . Online. [ftp://ftp.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_marketing\\_annual/historical/1997/pdf/pmaall.pdf](http://ftp.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/historical/1997/pdf/pmaall.pdf) (September 1, 1999). 1998 prices for gasoline, distillate, and jet fuel are based on prices in various issues of EIA, Petroleum Marketing Monthly, DOE/EIA-0380 (98/03-99/04) (Washington, DC, 1998-99). 1997 and 1998 prices for all other petroleum products are derived from EIA, State Energy Price and Expenditure Report 1995, DOE/EIA-0376(95) (Washington, DC, August 1998). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 13. Natural Gas Supply and Disposition (1 of 1)**  
**(Trillion Cubic Feet per Year)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Production																										
Dry Gas Production 1/	18.90	18.88	18.36	19.10	18.68	18.68	18.97	19.12	19.63	20.21	20.85	21.34	21.85	22.60	23.04	23.55	24.05	24.63	25.27	25.50	25.85	26.16	26.33	26.52	1.6%	
Supplemental Natural Gas 2/	0.10	0.12	0.12	0.13	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-3.2%	
Net Imports	2.84	3.13	3.42	3.66	3.89	4.03	4.17	4.27	4.34	4.40	4.44	4.48	4.52	4.57	4.61	4.66	4.71	4.76	4.84	4.91	4.96	5.00	5.05	5.07	2.2%	
Canada	2.84	3.15	3.35	3.56	3.76	3.88	4.00	4.07	4.13	4.17	4.22	4.27	4.32	4.37	4.43	4.49	4.55	4.61	4.70	4.77	4.83	4.87	4.92	4.94	2.1%	
Mexico	-0.02	-0.04	-0.03	-0.03	-0.04	-0.05	-0.06	-0.07	-0.08	-0.09	-0.10	-0.11	-0.12	-0.13	-0.15	-0.16	-0.17	-0.18	-0.19	-0.19	-0.20	-0.20	-0.20	-0.20	7.7%	
Liquefied Natural Gas	0.02	0.02	0.10	0.14	0.17	0.20	0.24	0.26	0.29	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	13.7%	
Total Supply	21.84	22.13	21.91	22.89	22.68	22.83	23.25	23.50	24.09	24.72	25.41	25.93	26.48	27.23	27.71	28.27	28.81	29.45	30.17	30.46	30.87	31.21	31.44	31.65	1.6%	
Consumption by Sector																										
Residential	4.97	4.48	4.79	4.90	4.92	4.95	4.99	5.03	5.05	5.09	5.13	5.20	5.23	5.28	5.32	5.37	5.40	5.44	5.48	5.54	5.56	5.60	5.65	5.70	1.1%	
Commercial	3.21	3.03	3.17	3.20	3.23	3.26	3.28	3.30	3.32	3.34	3.37	3.40	3.43	3.47	3.50	3.53	3.56	3.58	3.60	3.62	3.63	3.64	3.65	3.65	0.9%	
Industrial 3/	8.47	8.23	8.00	8.13	8.16	8.27	8.48	8.65	8.83	8.97	9.05	9.12	9.18	9.26	9.31	9.40	9.52	9.63	9.73	9.78	9.85	9.92	9.99	10.06	0.9%	
Electric Generators 4/	3.36	3.67	3.48	4.30	4.09	4.09	4.25	4.28	4.63	4.99	5.47	5.76	6.13	6.64	6.96	7.28	7.62	8.02	8.51	8.65	8.91	9.10	9.18	9.24	4.3%	
Lease and Plant Fuel 5/	1.20	1.24	1.24	1.25	1.23	1.23	1.24	1.24	1.26	1.29	1.33	1.36	1.39	1.43	1.46	1.48	1.51	1.54	1.58	1.59	1.61	1.64	1.65	1.67	1.4%	
Pipeline Fuel	0.75	0.73	0.75	0.76	0.74	0.73	0.74	0.74	0.75	0.77	0.79	0.81	0.82	0.85	0.86	0.87	0.89	0.90	0.92	0.93	0.94	0.95	0.96	0.96	1.3%	
Transportation 6/	0.01	0.02	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.29	0.30	0.30	0.31	0.32	13.0%	
Total	21.99	21.39	21.46	22.59	22.44	22.63	23.09	23.37	23.99	24.63	25.32	25.84	26.40	27.15	27.63	28.19	28.74	29.38	30.10	30.40	30.81	31.16	31.38	31.59	1.8%	
Discrepancy 7/	-0.15	0.73	0.45	0.30	0.24	0.20	0.17	0.13	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.05	N/A		

1/ Marketed production (wet) minus extraction losses.

2/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

3/ Includes consumption by cogenerators.

4/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

5/ Represents natural gas used in the field gathering and processing plant machinery.

6/ Compressed natural gas used as vehicle fuel.

7/ Balancing item. Natural gas lost as a result of converting flow data measured at varying temperatures and pressures to a standard temperature and pressure and the merger of different data reporting systems which vary in scope, format, definition, and respondent type. In addition, 1997 and 1998 values include net storage injections.

Btu = British thermal unit.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 supply values and consumption as lease, plant, and pipeline fuel: Energy Information Administration (EIA), Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). Other 1997 consumption derived from: EIA, State Energy Data Report 1996 , DOE/EIA-0214(96) (Washington, DC, February 1999). 1998 supplemental natural gas: EIA, Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). 1997 imports and dry gas production derived from: EIA, Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). 1998 transportation sector consumption: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A. Other 1998 consumption: EIA, Short-Term Energy Outlook, September 1999. Online. <http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sept99.pdf> (October 12, 1999) with adjustments to end-use sector consumption levels for consumption of natural gas by electric wholesale generators based on EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 14. Natural Gas Prices, Margins and Revenues (1 of 1)**  
**(1998 Dollars per Thousand Cubic Feet, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Source Price																									
Average L48 Wellhead Price <sup>1/</sup>	2.39	1.96	2.12	2.20	2.22	2.25	2.31	2.39	2.49	2.58	2.65	2.69	2.71	2.72	2.73	2.74	2.75	2.76	2.78	2.80	2.81	2.83	2.84	2.87	1.7%
Average Import Price	2.18	1.96	1.98	2.06	2.16	2.30	2.45	2.59	2.72	2.79	2.82	2.81	2.80	2.79	2.78	2.78	2.78	2.78	2.80	2.81	2.83	2.87	2.92	2.98	1.9%
Average 2/	2.36	1.96	2.10	2.18	2.21	2.26	2.34	2.43	2.53	2.62	2.68	2.72	2.73	2.74	2.74	2.75	2.75	2.76	2.78	2.80	2.82	2.84	2.85	2.89	1.8%
Delivered Prices																									
Residential	7.02	6.79	6.51	6.90	6.88	6.87	6.88	6.92	6.96	6.99	7.00	6.97	6.94	6.90	6.86	6.82	6.78	6.74	6.71	6.68	6.65	6.63	6.61	6.62	-0.1%
Commercial	5.87	5.42	5.27	5.66	5.65	5.65	5.68	5.74	5.79	5.84	5.87	5.87	5.85	5.83	5.80	5.78	5.76	5.74	5.73	5.72	5.71	5.71	5.71	5.73	0.3%
Industrial 3/	3.17	2.73	2.91	3.00	3.02	3.06	3.13	3.22	3.32	3.40	3.46	3.48	3.50	3.50	3.51	3.52	3.52	3.53	3.55	3.57	3.59	3.61	3.63	3.66	1.3%
Electric Generators 4/	2.79	2.40	2.54	2.68	2.71	2.76	2.82	2.93	3.02	3.13	3.20	3.24	3.27	3.29	3.31	3.33	3.34	3.36	3.38	3.40	3.41	3.43	3.44	3.48	1.7%
Transportation 5/	6.51	6.00	6.49	6.53	6.47	6.48	6.57	6.71	6.89	7.08	7.27	7.40	7.50	7.59	7.65	7.71	7.74	7.76	7.78	7.79	7.79	7.78	7.80	1.2%	
Average 6/	4.50	4.03	4.12	4.29	4.31	4.34	4.37	4.44	4.49	4.54	4.56	4.57	4.55	4.53	4.52	4.50	4.48	4.47	4.46	4.46	4.46	4.47	4.50	0.5%	
Transmission & Distribution Margins 7/																									
Residential	4.66	4.83	4.41	4.73	4.67	4.61	4.55	4.49	4.43	4.37	4.32	4.26	4.21	4.16	4.12	4.07	4.02	3.97	3.93	3.88	3.83	3.80	3.76	3.73	-1.2%
Commercial	3.51	3.46	3.17	3.49	3.43	3.39	3.35	3.31	3.26	3.22	3.19	3.15	3.12	3.09	3.06	3.03	3.01	2.98	2.95	2.92	2.89	2.87	2.85	2.84	-0.9%
Industrial 3/	0.81	0.77	0.81	0.82	0.81	0.80	0.80	0.79	0.78	0.78	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.0%
Electric Generators 4/	0.43	0.44	0.44	0.51	0.49	0.50	0.48	0.50	0.49	0.51	0.52	0.52	0.54	0.56	0.57	0.58	0.59	0.59	0.59	0.60	0.59	0.59	0.59	0.59	1.4%
Transportation 5/	4.14	4.04	4.39	4.35	4.25	4.22	4.23	4.28	4.35	4.46	4.59	4.69	4.78	4.86	4.91	4.96	4.99	5.00	5.00	4.99	4.97	4.95	4.93	4.91	0.9%
Average 6/	2.14	2.07	2.02	2.11	2.10	2.08	2.04	2.01	1.96	1.92	1.88	1.85	1.83	1.80	1.78	1.76	1.73	1.70	1.67	1.66	1.64	1.63	1.62	1.61	-1.1%
Transmission & Distribution Revenue (billion 1998 dollars)																									
Residential	23.19	21.62	21.10	23.16	22.96	22.82	22.68	22.60	22.39	22.26	22.17	22.13	22.02	21.99	21.90	21.87	21.73	21.63	21.53	21.47	21.33	21.27	21.24	21.26	-0.1%
Commercial	11.27	10.46	10.05	11.16	11.10	11.04	10.98	10.91	10.82	10.78	10.75	10.72	10.71	10.72	10.72	10.72	10.70	10.66	10.62	10.57	10.52	10.46	10.41	10.35	0.0%
Industrial 3/	6.82	6.37	6.44	6.68	6.59	6.63	6.75	6.83	6.92	6.99	7.01	7.02	7.04	7.12	7.15	7.23	7.32	7.41	7.50	7.56	7.62	7.67	7.74	7.81	0.9%
Electric Generators 4/	1.44	1.60	1.52	2.19	2.02	2.04	2.06	2.12	2.28	2.55	2.82	3.00	3.30	3.71	3.96	4.22	4.47	4.75	5.04	5.19	5.29	5.36	5.41	5.42	5.7%
Transportation 5/	0.06	0.09	0.15	0.22	0.31	0.40	0.49	0.58	0.66	0.75	0.83	0.91	0.99	1.07	1.15	1.21	1.28	1.34	1.39	1.44	1.47	1.51	1.53	1.56	14.0%
Total	42.78	40.14	39.25	43.40	42.97	42.94	42.95	43.04	43.06	43.33	43.59	43.79	44.07	44.62	44.89	45.25	45.49	45.79	46.08	46.23	46.23	46.28	46.34	46.41	0.7%

1/ Represents lower 48 onshore and offshore supplies.

2/ Quantity-weighted average of the average lower 48 wellhead price and the average price of imports at the U.S. border.

3/ Includes consumption by cogenerators.

4/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

5/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.

6/ Weighted average prices and margins. Weights used are the sectoral consumption values excluding lease, plant, and pipeline fuel.

7/ Within the table, "transmission and distribution" margins equal the difference between the delivered price and the source price (average of the wellhead price and the price of imports at the U.S. border) of natural gas and, thus, reflect the total cost of bringing natural gas to market. When the term "transmission and distribution" margins is used in today's natural gas market, it generally does not include the cost of independent natural gas marketers or costs associated with aggregation of supplies, provisions of storage, and other services. As used here, the term includes the cost of all services and the cost of pipeline fuel used in compressor stations.

L48 = Lower 48.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 residential, commercial, and transportation delivered prices; average lower 48 wellhead price; and average import price: Energy Information Administration (EIA), Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). 1997 electric generators delivered price: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants". 1997 and 1998 industrial delivered prices based on EIA, Manufacturing Energy Consumption Survey 1994. 1998 residential and commercial delivered prices, average lower 48 wellhead price, and average import price: EIA, Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). Other 1997 values, other 1998 values, and projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 15. Oil and Gas Supply (1 of 1)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Crude Oil																									
Lower 48 Average Wellhead Price 1/																									
(1998 dollars per barrel)	18.19	11.60	16.46	20.40	22.90	22.73	22.99	23.26	23.64	24.23	24.65	25.17	25.50	25.85	26.55	26.68	26.84	27.13	27.40	27.44	27.39	27.44	27.51	27.53	4.0%
Production (million barrels per day) 2/																									
U.S. Total	6.45	6.25	6.02	6.00	5.91	5.72	5.64	5.58	5.53	5.48	5.44	5.44	5.46	5.50	5.55	5.61	5.69	5.74	5.80	5.91	5.96	6.01	6.02	6.02	-0.2%
Lower 48 Onshore	3.75	3.60	3.36	3.39	3.28	3.21	3.18	3.18	3.17	3.16	3.16	3.19	3.24	3.30	3.36	3.43	3.50	3.58	3.65	3.72	3.77	3.81	3.82	3.81	0.3%
Conventional	3.06	2.87	2.64	2.71	2.62	2.55	2.53	2.53	2.51	2.48	2.45	2.46	2.47	2.49	2.53	2.56	2.60	2.63	2.66	2.69	2.71	2.73	2.74	2.74	-0.2%
Enhanced Oil Recovery	0.69	0.73	0.71	0.68	0.66	0.65	0.65	0.65	0.67	0.69	0.71	0.74	0.77	0.80	0.84	0.87	0.91	0.95	0.99	1.03	1.05	1.08	1.07	1.07	1.7%
Lower 48 Offshore	1.40	1.47	1.58	1.63	1.53	1.44	1.42	1.40	1.38	1.37	1.37	1.36	1.37	1.37	1.39	1.41	1.44	1.47	1.50	1.54	1.58	1.61	1.65	1.68	0.6%
Alaska	1.30	1.18	1.09	0.98	1.10	1.07	1.04	1.01	0.98	0.95	0.91	0.88	0.86	0.83	0.80	0.77	0.74	0.70	0.65	0.65	0.62	0.58	0.55	0.53	-3.6%
L48 End of Year Res.(bill. bbl) 2/	18.73	18.05	17.05	16.27	15.68	15.33	15.04	14.80	14.58	14.45	14.39	14.39	14.45	14.55	14.71	14.87	15.04	15.23	15.45	15.65	15.77	15.85	15.83	15.78	-0.6%
Natural Gas																									
Lower 48 Average Wellhead Price 1/																									
(1998 dollars/mmcf)	2.39	1.96	2.12	2.20	2.22	2.25	2.31	2.39	2.49	2.58	2.65	2.69	2.71	2.72	2.73	2.74	2.75	2.76	2.78	2.80	2.81	2.83	2.84	2.87	1.7%
Production (trillion cubic feet) 3/																									
U.S. Total	18.90	18.88	18.36	19.10	18.68	18.68	18.97	19.12	19.63	20.21	20.85	21.34	21.85	22.60	23.04	23.55	24.05	24.63	25.27	25.50	25.85	26.16	26.33	26.52	1.6%
Lower 48 Onshore	12.96	12.91	12.70	13.13	12.69	12.52	12.58	12.65	13.15	13.84	14.64	15.28	15.89	16.59	16.91	17.17	17.34	17.57	17.94	18.13	18.52	18.88	19.13	19.32	1.8%
Associated-Dissolved 4/	1.70	1.72	1.59	1.48	1.52	1.46	1.42	1.40	1.39	1.36	1.32	1.29	1.28	1.27	1.27	1.28	1.29	1.30	1.30	1.31	1.31	1.31	1.31	1.30	-1.3%
Non-Associated	11.27	11.19	11.11	11.65	11.18	11.06	11.16	11.25	11.77	12.48	13.31	13.99	14.62	15.32	15.63	15.88	16.05	16.28	16.64	16.82	17.20	17.57	17.82	18.02	2.2%
Conventional	6.76	6.68	6.63	6.82	6.35	6.16	6.17	6.25	6.68	7.26	7.92	8.46	8.93	9.43	9.54	9.55	9.51	9.48	9.66	9.69	9.86	10.03	10.23	10.36	2.0%
Unconventional	4.51	4.51	4.47	4.83	4.83	4.90	4.99	5.00	5.09	5.22	5.39	5.54	5.69	5.89	6.09	6.33	6.55	6.79	6.98	7.13	7.34	7.55	7.59	7.66	2.4%
Lower 48 Offshore	5.51	5.54	5.25	5.54	5.55	5.72	5.94	6.02	6.02	5.90	5.75	5.58	5.48	5.53	5.65	5.89	6.20	6.55	6.81	6.85	6.81	6.74	6.67	6.66	0.8%
Associated-Dissolved 4/	0.88	0.89	0.90	0.93	0.95	0.92	0.90	0.90	0.89	0.89	0.89	0.89	0.88	0.89	0.89	0.90	0.90	0.91	0.92	0.93	0.94	0.95	0.95	0.93	0.3%
Non-Associated	4.63	4.65	4.35	4.61	4.61	4.80	5.04	5.12	5.13	5.01	4.86	4.69	4.59	4.65	4.76	5.00	5.31	5.65	5.90	5.93	5.88	5.80	5.72	5.71	0.9%
Alaska	0.43	0.44	0.42	0.43	0.43	0.44	0.44	0.45	0.46	0.46	0.47	0.48	0.48	0.49	0.49	0.50	0.50	0.51	0.51	0.52	0.52	0.53	0.53	0.54	0.9%
L48 End of Year Reserves(tcf) 5/	156.66	155.00	152.98	150.34	150.21	149.76	150.15	151.76	154.37	158.01	162.06	166.61	171.64	176.35	180.97	185.28	188.91	191.94	194.20	196.19	197.20	196.83	195.32	193.03	1.0%
Supplemental Gas Supplies(tcf) 5/	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-3.9%
Lower 48 Wells (thousands)	27.39	23.96	17.54	20.28	21.75	22.86	24.78	26.49	28.89	31.46	33.71	35.94	37.93	38.56	39.17	39.62	40.06	41.02	42.51	43.74	44.04	44.35	44.54	44.76	2.9%

1/ Represents lower 48 onshore and offshore supplies.

2/ Includes lease condensate.

3/ Market production (wet) minus extraction losses.

4/ Gas which occurs in crude oil reserves either as free gas (associated) or as gas in solution with crude oil (dissolved).

5/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Btu = British thermal unit.

Bill. = Billion.

Bbl. = Barrel.

Tcf = Trillion cubic feet.

L48 = Lower 48.

Res. = Reserve.

Mmcf = Thousand cubic feet.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 lower 48 onshore, lower 48 offshore, Alaska crude oil production: Energy Information Administration (EIA), Petroleum Supply Annual 1997, DOE/EIA-0340(97/1) (Washington, DC, June 1998).

1997 U.S. crude oil and natural gas reserves: EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, DOE/EIA-0216(96) (Washington, DC, December 1997). 1997 natural gas lower 48 average wellhead price and total natural gas production: EIA, Natural Gas Annual 1997, DOE/EIA-0131(97) (Washington, DC, October 1998). 1998 lower 48 onshore, lower 48 offshore, and Alaska crude oil production: EIA, Petroleum Supply Annual 1998, DOE/EIA-0340(98/1) (Washington, DC, June 1999). 1998 natural gas lower 48 average wellhead price, Alaska and total natural gas production, and supplemental gas supplies: EIA, Natural Gas Monthly, DOE/EIA-0130(99/06) (Washington, DC, June 1999). Other 1997 and 1998 values: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 16. Coal Supply, Disposition, and Prices (1 of 1)**  
 (Million Short Tons per Year, Unless Otherwise Noted)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Production 1/																										
Appalachia	476	470	443	429	432	433	450	448	445	440	432	440	432	423	420	420	417	417	412	409	395	386	385	384	-0.9%	
Interior	171	168	174	144	153	157	172	170	167	169	155	177	150	139	140	141	141	141	142	142	143	145	148	151	-0.5%	
West	451	489	502	563	567	583	567	595	612	621	648	629	657	674	681	686	693	698	714	723	749	765	776	786	2.2%	
East of the Mississippi	587	580	556	531	549	556	590	591	588	587	570	597	566	550	548	549	546	547	543	540	527	521	522	523	-0.5%	
West of the Mississippi	511	548	563	605	603	618	599	622	636	643	666	649	673	687	693	698	705	709	725	734	760	776	786	798	1.7%	
Total	1098	1128	1120	1136	1153	1174	1189	1213	1224	1230	1236	1245	1239	1237	1241	1247	1251	1256	1268	1275	1287	1297	1308	1320	0.7%	
Net Imports																										
Imports	7	9	9	10	12	12	13	14	15	16	16	17	17	17	17	17	18	18	18	18	19	19	19	20	3.7%	
Exports	84	78	63	63	63	62	63	63	63	63	64	66	63	64	62	63	59	58	57	57	58	57	57	58	-1.4%	
Total	-76	-69	-54	-53	-50	-50	-49	-49	-48	-48	-48	-49	-46	-47	-45	-45	-42	-40	-38	-39	-39	-38	-38	-38	-2.7%	
Total Supply 2/	1022	1058	1066	1083	1102	1124	1140	1164	1176	1183	1188	1196	1193	1190	1196	1202	1210	1216	1230	1236	1248	1258	1271	1282	0.9%	
Consumption by Sector																										
Residential and Commercial	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0.4%	
Industrial 3/	71	69	71	71	70	71	71	72	73	73	73	73	73	73	73	73	73	73	74	74	74	74	74	75	0.4%	
Coke Plants	30	28	28	27	27	27	26	26	25	25	25	24	24	23	23	22	22	22	21	21	20	20	20	19	-1.7%	
Electric Generators 4/	922	939	948	981	998	1020	1036	1060	1072	1079	1085	1094	1091	1088	1096	1101	1109	1116	1130	1136	1148	1159	1171	1183	1.1%	
Total	1029	1043	1053	1085	1102	1124	1140	1164	1177	1184	1189	1198	1194	1191	1198	1203	1211	1217	1231	1237	1249	1260	1272	1284	0.9%	
Discrepancy and Stock Change5/	-7	16	13	-2	0	0	0	0	-1	-1	-1	-1	-1	-1	-2	-2	-1	-2	-2	-1	-1	-1	-1	N/A		
Average Minemouth Price (1998 dollars per short ton)	18.32	17.51	16.82	15.93	15.70	15.34	15.43	15.04	14.68	14.47	14.30	14.11	13.96	13.99	13.81	13.74	13.62	13.54	13.39	13.27	13.05	12.77	12.60	12.53	-1.5%	
(1998 dollars per million Btu)	0.86	0.83	0.80	0.76	0.75	0.73	0.73	0.71	0.70	0.69	0.68	0.67	0.66	0.66	0.66	0.65	0.65	0.64	0.64	0.63	0.62	0.61	0.61	0.60	-1.4%	
Deliv. Price (1998 dollars/short ton) 6/																										
Industrial	32.73	32.26	30.67	30.59	30.12	29.82	29.52	29.17	28.83	28.65	28.41	28.14	27.90	27.58	27.29	27.09	26.87	26.69	26.44	26.21	26.03	25.78	25.53	25.38	-1.1%	
Coke Plants	48.08	46.06	47.09	47.14	46.50	45.90	45.54	45.09	44.83	44.42	44.15	43.67	43.40	43.11	42.72	42.46	42.29	42.13	41.80	41.57	41.27	40.86	40.68	40.44	-0.6%	
Electric Generators																										
(1998 dollars per short ton)	26.42	25.64	25.75	25.23	24.40	23.98	23.68	23.43	23.13	22.93	22.90	22.39	22.40	22.52	22.25	22.08	21.84	21.65	21.47	21.23	21.00	20.69	20.40	20.22	-1.1%	
(1998 dollars per million Btu)	1.28	1.25	1.26	1.24	1.19	1.17	1.14	1.13	1.12	1.11	1.11	1.09	1.09	1.09	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	-1.1%	
Average	27.50	26.65	26.65	26.14	25.31	24.87	24.55	24.27	23.95	23.74	23.68	23.17	23.16	23.24	22.95	22.76	22.51	22.32	22.12	21.87	21.63	21.31	21.02	20.82	-1.1%	
Exports 7/	40.95	38.89	40.29	40.19	39.70	39.29	39.08	38.76	38.42	37.95	37.57	37.25	36.52	36.22	35.88	35.53	35.27	35.26	35.27	34.94	34.71	34.45	34.32	34.10	-0.6%	

1/ Includes anthracite, bituminous coal, lignite, and waste coal delivered to independent power producers. Waste coal deliveries totaled 7.9 million tons in 1994, 8.5 million tons in 1995, 8.8 million tons in 1996, 8.1 million tons in 1997, and are projected to reach 9.5 million tons in 1998, and 11.6 million tons in 1999.

2/ Production plus net imports and net storage withdrawals.

3/ Includes consumption by cogenerators.

4/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

5/ Balancing item: the sum of production, net imports, and net storage minus total consumption.

6/ Sectoral prices weighted by consumption tonnage; weighted average excludes residential/ commercial prices and export free-alongside-ship (f.a.s.) prices.

7/ F.a.s. price at U.S. port of exit.

N/A = Not applicable.

Btu = British thermal unit.

Deliv. = Delivered.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997: Energy Information Administration (EIA), Coal Industry Annual 1997, DOE/EIA-0584(97) (Washington, DC, December 1998). 1998 data based on EIA, Quarterly Coal Report , DOE/EIA-0121(99)1Q (Washington, DC, August 1999), and EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A. Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 17. Renewable Energy Generating Capability and Generation (1 of 1)**  
**(Gigawatts, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Electricity Generators (excludes cogenerators) 1/																										
Net Summer Capability																										
Conventional Hydropower	77.43	77.71	77.72	77.72	77.79	77.94	78.06	78.13	78.21	78.35	78.35	78.35	78.35	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	78.33	0.0%		
Geothermal 2/	2.87	2.89	2.90	2.96	3.11	3.05	2.98	2.89	2.90	2.80	2.87	2.98	3.02	2.96	2.91	2.94	2.99	3.11	3.13	3.26	3.47	3.55	3.69	3.86	1.3%	
Municipal Solid Waste 3/	2.49	2.49	2.52	2.58	3.27	3.39	3.48	3.59	3.70	3.85	3.99	4.18	4.32	4.47	4.64	4.83	4.87	4.96	5.00	5.08	5.10	5.13	5.15	5.16	3.4%	
Wood and Other Biomass 4/	1.76	1.76	1.76	1.78	1.87	1.94	1.96	1.99	2.01	2.05	2.11	2.19	2.29	2.41	2.53	2.68	2.68	2.70	2.72	2.78	2.82	2.88	2.91	2.94	2.3%	
Solar Thermal	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.37	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.44	0.45	0.46	0.47	0.48	1.7%	
Solar Photovoltaic	0.01	0.01	0.01	0.01	0.02	0.02	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.35	0.38	0.42	0.45	0.49	0.52	18.4%	
Wind	1.78	1.99	2.64	2.74	2.90	3.27	3.43	3.71	3.89	4.24	4.47	4.87	4.97	5.07	5.20	5.29	5.30	5.40	5.42	5.42	5.49	5.49	5.49	4.7%		
Total	86.68	87.19	87.90	88.13	89.28	89.96	90.28	90.70	91.14	91.75	92.28	93.09	93.50	93.82	94.23	94.72	94.86	95.13	95.36	95.70	96.01	96.22	96.52	96.78	0.5%	
Generation (billion kilowatthours)																										
Conventional Hydropower	350.45	316.79	300.07	299.74	299.79	300.04	300.36	300.49	300.61	301.00	300.96	300.83	300.71	300.48	300.32	300.21	300.13	300.02	299.91	299.83	299.67	299.55	299.48	299.35	-0.3%	
Geothermal 2/	14.58	14.29	14.07	14.51	15.65	15.76	15.69	15.54	15.62	15.34	15.95	16.76	17.09	17.20	17.28	17.54	18.55	19.61	19.82	20.81	22.45	23.09	24.23	25.54	2.7%	
Municipal Solid Waste 3/	17.72	17.78	17.35	17.73	22.47	23.34	23.91	24.68	25.46	26.50	27.39	28.71	29.62	30.60	31.76	33.00	33.62	34.25	34.51	34.97	35.26	35.41	35.55	35.67	3.2%	
Wood and Other Biomass 4/	6.88	6.86	9.26	9.08	10.60	12.25	12.20	14.18	15.46	17.09	16.78	17.57	19.09	20.29	19.90	19.43	19.97	19.02	18.69	18.68	18.31	18.61	19.12	4.8%		
Dedicated Plants	6.88	6.86	6.72	6.85	7.43	7.88	8.04	8.21	8.38	8.64	9.04	9.57	10.24	11.00	11.83	12.82	12.82	12.94	13.06	13.52	13.76	14.26	14.39	14.70	3.5%	
Cofiring	0.00	0.00	2.53	2.24	3.18	4.36	4.15	5.97	7.09	8.44	7.74	8.00	8.85	9.28	8.06	6.61	7.15	7.03	5.96	5.17	4.92	4.06	4.23	4.42	N/A	
Solar Thermal	0.89	0.89	0.89	0.89	0.89	0.90	0.91	0.95	0.95	0.97	1.02	1.04	1.08	1.09	1.11	1.13	1.16	1.20	1.22	1.25	1.27	1.30	1.32	1.35	1.9%	
Solar Photovoltaic	0.00	0.00	0.03	0.03	0.05	0.06	0.09	0.13	0.18	0.22	0.27	0.32	0.40	0.46	0.53	0.61	0.68	0.77	0.86	0.95	1.04	1.13	1.22	1.30	31.8%	
Wind	3.39	3.39	5.38	5.62	5.97	6.82	7.17	7.77	8.18	8.96	9.49	10.39	10.66	10.95	11.29	11.53	11.62	11.64	11.87	11.93	11.96	11.96	12.09	12.09	6.0%	
Total	393.91	360.00	347.05	347.61	355.42	359.17	360.32	363.73	366.47	370.08	371.85	375.62	378.65	381.07	382.20	383.45	385.72	387.45	387.21	388.43	390.32	390.75	392.50	394.44	0.4%	
Cogenerators 5/																										
Net Summer Capability																										
Municipal Solid Waste	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.0%	
Biomass	6.00	6.04	6.04	6.12	6.30	6.44	6.61	6.77	6.92	7.05	7.17	7.29	7.39	7.51	7.59	7.71	7.84	8.00	8.16	8.26	8.37	8.48	8.60	8.73	1.7%	
Total	6.52	6.56	6.56	6.64	6.82	6.96	7.14	7.29	7.45	7.57	7.69	7.81	7.91	8.03	8.11	8.23	8.36	8.52	8.68	8.78	8.89	9.00	9.12	9.25	1.6%	
Generation (billion kilowatthours)																										
Municipal Solid Waste	2.99	3.00	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	0.2%	
Biomass	37.13	37.34	36.95	37.47	38.52	39.37	40.43	41.37	42.29	43.03	43.76	44.47	45.02	45.73	46.16	46.82	47.55	48.41	49.29	49.83	50.39	50.96	51.62	52.34	1.5%	
Total	40.13	40.34	40.09	40.60	41.66	42.50	43.56	44.50	45.42	46.17	46.89	47.60	48.15	48.86	49.29	49.95	50.68	51.54	52.42	52.96	53.52	54.09	54.75	55.47	1.5%	
Other Generators 6/																										
Net Summer Capability																										
Conventional Hydropower 7/	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	0.0%	
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Solar Photovoltaic	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.07	0.09	0.13	0.17	0.22	0.28	0.35	0.35	0.35	0.35	0.35	0.42	0.48	0.55	0.62	0.68	0.74	23.4%	
Total	1.10	1.10	1.10	1.10	1.11	1.12	1.14	1.16	1.19	1.22	1.27	1.32	1.38	1.44	1.44	1.44	1.44	1.45	1.51	1.58	1.65	1.71	1.77	1.83	2.3%	
Generation (billion kilowatthours)																										
Conventional Hydropower 7/	7.25	7.25	4.88	4.87	4.87	4.87	4.86	4.86	4.86	4.86	4.86	4.86	4.85	4.85	4.85	4.85	4.85	4.84	4.84	4.84	4.84	4.84	4.84	4.83	-1.8%	
Geothermal	0.00	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	13.9%	
Solar Photovoltaic	0.01	0.01	0.01	0.01	0.03	0.04	0.07	0.12	0.16	0.22	0.28	0.35	0.42	0.46	0.46	0.46	0.46	0.46	0.47	0.47	0.48	0.49	0.49	0.50	21.9%	
Total	7.26	7.26	4.95	4.95	4.96	4.98	5.00	5.05	5.09	5.15	5.21	5.27	5.34	5.38	5.38	5.37	5.37	5.38	5.38	5.38	5.39	5.40	5.40	-1.3%		

1/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

2/ Includes hydrothermal resources only (hot water and steam).

3/ Includes landfill gas.

4/ Includes projections for energy crops after 2010.

5/ Cogenerators produce electricity and other useful thermal energy.

6/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.

7/ Represents own-use industrial hydroelectric power.

N/A = Not applicable.

Notes: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports. Net summer capability has been estimated for nonutility generators for AEO2000. Net summer capability is used to be consistent with electric utility capacity estimates. Additional retirements are determined on the basis of the size and age of the units.

Sources: 1997 and 1998 electric utility capability: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report." 1997 and 1998 nonutility and cogenerator capability: EIA, Form EIA-867, "Annual Nonutility Power Producer Report, 1997." 1997 and 1998 generation: EIA, Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D10019A.

**Table 18. Renewable Energy, Consumption by Sector and Source 1/ (1 of 2)**  
**(Quadrillion Btu per Year)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
Marketed Renewable Energy 2/																										
Residential	0.42	0.38	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.7%	
Wood	0.42	0.38	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.7%	
Commercial	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	N/A	
Biomass	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	N/A	
Industrial 3/	2.03	2.08	2.13	2.14	2.18	2.21	2.25	2.28	2.31	2.34	2.36	2.39	2.41	2.43	2.45	2.48	2.51	2.54	2.57	2.59	2.62	2.64	2.67	2.69	1.2%	
Conventional Hydroelectric	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	N/A	
Municipal Solid Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	
Biomass	1.86	1.91	1.96	1.97	2.01	2.04	2.08	2.11	2.14	2.17	2.19	2.22	2.24	2.26	2.28	2.31	2.34	2.37	2.40	2.42	2.45	2.47	2.50	2.52	1.3%	
Transportation	0.10	0.12	0.12	0.14	0.15	0.15	0.16	0.17	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	3.5%	
Ethanol used in E85 4/	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N/A	
Ethanol used in Gas.Blending	0.10	0.12	0.12	0.14	0.14	0.13	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.19	2.3%	
Electric Generators 5/	4.46	4.12	3.93	4.02	4.10	4.27	4.23	4.21	4.23	4.30	4.29	4.37	4.41	4.45	4.50	4.52	4.54	4.59	4.63	4.71	4.68	4.74	4.73	4.78	0.7%	
Conventional Hydroelectric	3.68	3.33	3.09	3.09	3.09	3.09	3.09	3.09	3.10	3.10	3.10	3.10	3.10	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.08	3.08	3.08	3.08	-0.4%	
Geothermal	0.40	0.40	0.41	0.50	0.49	0.61	0.55	0.50	0.49	0.51	0.49	0.52	0.54	0.55	0.58	0.58	0.58	0.63	0.67	0.75	0.71	0.77	0.76	0.80	3.2%	
Municipal Solid Waste	0.27	0.27	0.28	0.28	0.36	0.37	0.38	0.39	0.41	0.42	0.44	0.46	0.47	0.49	0.51	0.53	0.54	0.55	0.55	0.56	0.56	0.56	0.56	0.57	3.4%	
Biomass	0.06	0.06	0.09	0.08	0.10	0.11	0.11	0.13	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.18	0.19	0.19	0.18	0.17	0.17	0.17	0.17	0.18	4.9%	
Dedicated Plants	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.14	3.7%	
Cofiring	0.00	0.00	0.02	0.02	0.03	0.04	0.04	0.06	0.07	0.08	0.07	0.08	0.08	0.09	0.08	0.06	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.04	N/A	
Solar Thermal	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	4.9%	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	
Wind	0.04	0.04	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	5.0%	
Total Marketed Renew. Energy	7.10	6.79	6.67	6.82	6.94	7.13	7.15	7.17	7.23	7.33	7.35	7.46	7.53	7.60	7.66	7.72	7.77	7.87	7.95	8.05	8.05	8.14	8.17	8.25	0.9%	
Non-Marketed Renewable Energy																										
-- Selected Consumption 6/																										
Residential	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	4.9%	
Solar Hot Water Heating	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.4%	
Geothermal Heat Pumps	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	5.6%	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.7%	
Commercial	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.1%	
Solar Thermal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	1.6%	
Solar Photovoltaic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	24.2%	
Ethanol																										
From Corn	0.10	0.12	0.12	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	1.7%	
From Cellulose	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	N/A		
Total	0.10	0.12	0.12	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.35		

1/ Actual heat rates used to determine fuel consumption for all renewable fuels except hydropower, solar, and wind. Consumption at hydroelectric, solar, and wind facilities determined by using the fossil fuel equivalent of 10,280 Btu per kilowatthour.

2/ Includes nonelectric renewable energy groups for which the energy source is bought and sold in the marketplace, although all transactions may not necessarily be marketed, and marketed renewable energy inputs for electricity entering the marketplace on the electric power grid. Excludes electricity imports; see Table A8.

3/ Includes all electricity production by industrial and other cogenerators for the grid and for own use.

4/ Excludes motor gasoline component of E85.

5/ Includes renewable energy delivered to the grid from electric utilities and nonutilities other than cogenerators. Renewable energy used in generating electricity for own use is included in the individual sectoral electricity energy consumption values.

6/ Includes selected renewable energy consumption data for which the energy is not bought or sold, either directly or indirectly as an input to marketed energy. The Energy Information Administration does not estimate or project total consumption of nonmarketed renewable energy.

N/A = Not applicable.

**Table 18. Renewable Energy, Consumption by Sector and Source 1/ (2 of 2)**  
**(Quadrillion Btu per Year)**

Btu = British thermal unit.

Renew. = Renewable.

Notes: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 and 1998 ethanol: Energy Information Administration (EIA), Annual Energy Review 1998, DOE/EIA-0384(98) (Washington, DC, July 1999). 1997 and 1998 electric generators: EIA, Form EIA-860, "Annual Electric Generator Report," and EIA, Form EIA-867, "Annual Nonutility Power Producer Report, 1997." Other 1997 and 1998: EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 19. Carbon Emissions by Sector and Source (1 of 2)**  
**(Million Metric Tons per Year, Unless Otherwise Noted)**

**Table 19. Carbon Emissions by Sector and Source (2 of 2)**  
**(Million Metric Tons per Year, Unless Otherwise Noted)**

1/ Includes consumption by cogenerators.

2/ Includes lease and plant fuel.

3/ This includes international bunker fuel which, by convention are excluded from the international accounting of carbon emissions. In the years from 1989 through 1996, international bunker fuels accounted for 22 to 24 million metric tons of carbon annually.

4/ Includes pipeline fuel natural gas and compressed natural gas used as vehicle fuel.

5/ Includes methanol and liquid hydrogen.

6/ Includes all electric power generators except cogenerators, which produce electricity and other useful thermal energy. Includes small power producers and exempt wholesale generators.

7/ Emissions from electric power generators are distributed to the primary fuels.

N/A = Not applicable.

Emis. = Emissions

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 and 1998 emissions and emission factors: Energy Information Administration (EIA), Emissions of Greenhouse Gases in the United States 1998, DOE/EIA-0573(98), (Washington, DC, October 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 20. Macroeconomic Indicators (1 of 1)**  
**(Billion 1992 Chain-Weighted Dollars, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
GDP Chain-Type Price Index (1992=1.000)	1.116	1.127	1.142	1.160	1.180	1.203	1.227	1.252	1.280	1.309	1.338	1.368	1.398	1.428	1.460	1.488	1.520	1.555	1.594	1.638	1.685	1.736	1.794	1.858	2.3%
Real Gross Domestic Product	7270	7552	7838	7983	8181	8365	8587	8815	9042	9236	9432	9636	9821	10031	10187	10392	10624	10882	11124	11300	11503	11711	11931	12151	2.2%
Real Consumption	4914	5153	5394	5501	5628	5738	5875	6025	6170	6310	6447	6596	6733	6882	7017	7173	7343	7530	7720	7875	8035	8200	8375	8557	2.3%
Real Investment	1206	1330	1425	1435	1489	1537	1610	1672	1742	1778	1814	1854	1879	1928	1942	1992	2067	2159	2231	2238	2284	2343	2418	2483	2.9%
Real Government Spending	1285	1297	1328	1357	1373	1391	1410	1432	1456	1479	1501	1524	1546	1573	1585	1601	1621	1642	1663	1683	1703	1724	1746	1775	1.4%
Real Exports	970	985	1011	1073	1151	1239	1338	1449	1567	1686	1812	1944	2083	2225	2356	2489	2627	2772	2921	3063	3208	3355	3502	3651	6.1%
Real Imports	1106	1223	1343	1410	1483	1558	1656	1771	1894	2019	2142	2285	2428	2591	2737	2899	3075	3274	3486	3654	3843	4055	4289	4543	6.1%
Real Disposable Personal Income	5183	5348	5510	5659	5791	5923	6065	6235	6386	6542	6699	6860	7015	7178	7320	7483	7659	7856	8058	8223	8394	8579	8773	8974	2.4%
Index of Manufacturing Gross Output (index 1987=1.000)	1.365	1.411	1.434	1.450	1.476	1.518	1.569	1.606	1.645	1.676	1.713	1.749	1.776	1.810	1.836	1.871	1.913	1.955	1.996	2.021	2.055	2.089	2.123	2.158	2.0%
AA Utility Bond Rate (percent)	7.54	6.91	7.50	7.38	6.91	6.82	6.84	6.95	6.94	7.11	7.36	7.51	7.71	7.84	8.07	8.18	8.21	8.17	8.22	8.39	8.51	8.63	8.76	8.86	N/A
Real Yield on Government 10 Year Bonds (percent)	4.94	4.29	4.74	4.74	4.15	4.05	3.92	4.00	3.96	4.06	4.22	4.35	4.52	4.64	4.83	4.97	5.05	5.02	4.98	4.92	4.91	4.89	4.85	4.76	N/A
Real Utility Bond Rate (percent)	5.53	5.33	6.11	6.07	5.36	5.06	4.95	4.97	4.84	4.93	5.11	5.28	5.49	5.65	5.88	6.07	6.10	6.03	5.90	5.86	5.80	5.74	5.67	5.53	N/A
Energy Intensity (thousand Btu per 1992 dollar of GDP)																									
Delivered Energy	9.71	9.32	9.14	9.11	8.99	8.92	8.83	8.74	8.65	8.58	8.51	8.43	8.36	8.28	8.22	8.15	8.06	7.97	7.88	7.82	7.74	7.67	7.60	7.53	-1.0%
Total Energy	12.99	12.57	12.30	12.28	12.12	12.03	11.89	11.74	11.59	11.49	11.37	11.26	11.15	11.02	10.94	10.83	10.69	10.55	10.41	10.31	10.19	10.09	9.97	9.87	-1.1%
Consumer Price Ind.(1982-4=1.00)	1.61	1.63	1.67	1.71	1.76	1.80	1.85	1.90	1.95	2.00	2.06	2.11	2.16	2.21	2.26	2.31	2.37	2.43	2.49	2.56	2.64	2.72	2.81	2.92	2.7%
Unemployment Rate (percent)	4.94	4.48	4.28	4.44	4.57	4.91	5.02	5.07	5.08	5.26	5.47	5.58	5.72	5.76	5.97	6.03	5.88	5.59	5.32	5.32	5.30	5.25	5.16	5.08	N/A
Unit Sales Light-Duty Vehicle(mill.)	15.05	15.64	16.15	14.76	14.64	14.59	14.97	15.36	15.58	15.51	15.43	15.50	15.52	15.70	15.57	15.70	16.02	16.49	16.79	16.55	16.44	16.44	16.59	16.81	0.3%
Millions of People																									
Pop. w/Armed Forces Overseas	268.2	270.6	272.9	275.2	277.5	279.8	282.0	284.3	286.6	288.9	291.2	293.5	295.9	298.3	300.8	303.3	305.8	308.3	310.8	313.3	315.8	318.4	320.9	323.4	0.8%
Population (aged 16 and over)	206.4	208.6	210.7	212.8	214.9	217.0	219.2	221.4	223.7	226.0	228.4	230.7	233.0	235.2	237.4	239.5	241.5	243.6	245.6	247.6	249.5	251.5	253.4	255.3	0.9%
Employment, Non-Agriculture	121.8	126.2	128.7	129.6	130.1	131.0	132.4	133.8	135.0	136.2	137.2	138.2	138.9	139.7	140.3	141.0	141.9	143.0	144.3	144.9	145.4	146.0	146.7	147.4	0.7%
Employment, Manufacturing	18.7	19.0	18.8	18.5	18.2	18.1	18.1	18.0	17.9	17.8	17.7	17.5	17.4	17.2	17.0	16.8	16.7	16.6	16.5	16.4	16.2	16.1	15.9	15.8	-0.8%
Labor Force	136.3	137.7	139.6	141.4	143.3	144.8	146.4	148.0	149.7	151.4	152.9	154.4	155.8	157.2	158.3	159.3	160.3	161.4	162.5	163.5	164.3	165.2	166.1	167.0	0.9%

GDP = Gross domestic product.

Btu = British thermal unit.

N/A = Not applicable.

Mill. = Million.

Sources: 1997 and 1998: Standard & Poor's DRI, Simulation T250899. Projections: Energy Information Administration, AEO2000 National Energy Modeling System run HWOP2K.D100199A.

**Table 21. International Petroleum Supply and Disposition Summary (1 of 2)**  
 (Million Barrels per Day, Unless Otherwise Noted)

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020	
World Oil Price(1998 dollars/bbl) <sup>1/</sup>	18.71	12.10	17.13	24.23	23.75	23.45	23.57	23.82	24.16	24.72	25.14	25.56	25.94	26.31	26.71	27.07	27.36	27.63	27.86	27.94	27.97	28.00	28.03	28.04	3.9%	
Production 2/																										
OECD																										
U.S. (50 states)	9.40	9.14	9.18	9.08	8.93	8.76	8.73	8.73	8.74	8.77	8.83	8.89	8.97	9.08	9.18	9.28	9.40	9.52	9.62	9.74	9.83	9.90	9.92	9.95	0.4%	
Canada	2.59	2.70	2.58	2.63	2.90	2.94	2.97	3.01	3.05	3.09	3.13	3.17	3.21	3.25	3.29	3.33	3.36	3.40	3.44	3.45	3.46	3.47	3.47	3.48	1.2%	
Mexico	3.44	3.52	3.45	3.60	3.75	3.77	3.79	3.81	3.83	3.87	3.92	3.97	4.01	4.06	4.05	4.04	4.02	4.01	3.99	3.97	3.95	3.93	3.91	3.89	0.5%	
OECD Europe 3/	7.02	6.95	6.94	7.41	7.69	7.77	7.84	7.91	7.99	7.95	7.91	7.87	7.83	7.79	7.65	7.51	7.37	7.24	7.11	7.00	6.90	6.80	6.70	6.60	-0.2%	
Other OECD	0.83	0.77	0.75	0.85	0.89	0.89	0.90	0.91	0.92	0.92	0.93	0.93	0.94	0.94	0.94	0.93	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.4%	
Total OECD	23.27	23.09	22.90	23.57	24.17	24.13	24.24	24.37	24.52	24.60	24.71	24.82	24.96	25.13	25.10	25.08	25.08	25.06	25.06	25.02	24.96	24.87	24.77	0.3%		
Developing Countries																										
Other South & Central America	3.40	3.64	3.84	3.97	3.99	4.00	4.04	4.08	4.12	4.20	4.27	4.35	4.43	4.51	4.59	4.66	4.74	4.82	4.90	4.94	4.98	5.03	5.07	5.12	1.6%	
Pacific Rim	2.17	2.19	2.20	2.27	2.35	2.38	2.42	2.45	2.49	2.59	2.70	2.82	2.94	3.06	3.09	3.13	3.17	3.20	3.24	3.26	3.29	3.31	3.33	3.35	2.0%	
OPEC	30.96	31.70	31.69	31.42	31.56	32.68	33.70	34.80	35.94	36.48	36.95	37.40	37.74	38.08	38.79	39.56	40.33	41.15	41.98	43.16	44.47	45.86	47.36	48.93	2.0%	
Other Developing Countries	4.62	4.69	4.76	4.86	4.89	4.92	4.95	4.98	4.93	5.03	5.17	5.31	5.45	5.60	5.81	6.04	6.27	6.51	6.76	6.95	7.15	7.35	7.55	7.76	2.3%	
Total Developing Countries	41.14	42.23	42.49	42.52	42.78	43.99	45.11	46.31	47.47	48.31	49.10	49.87	50.56	51.25	52.29	53.39	54.51	55.68	56.88	58.32	59.88	61.54	63.31	65.15	2.0%	
Eurasia																										
Former Soviet Union	7.13	7.24	7.28	7.34	7.49	7.57	7.64	7.71	7.79	8.24	8.72	9.23	9.76	10.33	10.71	11.10	11.51	11.93	12.36	12.56	12.76	12.96	13.17	13.37	2.8%	
Eastern Europe	0.25	0.25	0.24	0.25	0.27	0.28	0.29	0.31	0.32	0.33	0.35	0.36	0.38	0.39	0.40	0.41	0.41	0.42	0.43	0.43	0.44	0.45	0.46	0.46	2.8%	
China	3.20	3.20	3.22	3.28	3.30	3.31	3.32	3.35	3.37	3.41	3.46	3.50	3.54	3.58	3.60	3.63	3.65	3.68	3.70	3.70	3.71	3.71	3.71	3.71	0.7%	
Total Eurasia	10.58	10.69	10.75	10.87	11.06	11.16	11.26	11.37	11.48	11.99	12.52	13.09	13.68	14.30	14.71	15.14	15.58	16.03	16.49	16.70	16.91	17.12	17.33	17.55	2.3%	
Total Production	74.99	76.01	76.14	76.96	78.01	79.28	80.61	82.05	83.47	84.89	86.34	87.79	89.20	90.67	92.10	93.61	95.16	96.79	98.43	100.08	101.81	103.63	105.51	107.47	1.6%	
Consumption																										
OECD																										
U.S. (50 states)	18.59	18.94	19.33	19.39	19.68	19.93	20.18	20.52	20.80	21.07	21.34	21.60	21.80	22.06	22.24	22.48	22.73	23.02	23.28	23.47	23.69	23.92	24.17	24.42	1.2%	
U.S. Territories	0.28	0.28	0.29	0.30	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.33	0.34	0.34	0.35	0.9%		
Canada	1.86	1.88	1.91	1.94	1.93	1.93	1.94	1.95	1.96	1.96	1.97	1.98	1.99	2.00	2.01	2.01	2.02	2.03	2.04	2.05	2.06	2.07	2.08	2.09	0.5%	
Mexico	1.77	1.78	1.80	1.81	1.83	1.88	1.93	1.99	2.05	2.10	2.17	2.23	2.29	2.35	2.42	2.48	2.55	2.62	2.69	2.76	2.84	2.92	3.00	3.09	2.5%	
Japan	5.71	5.51	5.54	5.58	5.54	5.53	5.52	5.53	5.53	5.53	5.54	5.54	5.54	5.55	5.55	5.56	5.56	5.58	5.59	5.61	5.63	5.65	5.68	5.71	0.2%	
Australia and New Zealand	0.95	0.94	0.97	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.10	1.11	1.13	1.14	1.15	1.17	1.18	1.20	1.21	1.23	1.24	1.3%	
OECD Europe 3/	14.47	14.74	14.93	15.10	15.14	15.21	15.31	15.40	15.48	15.56	15.64	15.71	15.78	15.85	15.93	16.00	16.08	16.16	16.24	16.34	16.44	16.54	16.65	16.77	0.6%	
Total OECD	43.62	44.07	44.77	45.10	45.41	45.79	46.21	46.71	47.16	47.59	48.02	48.44	48.81	49.23	49.58	49.98	50.41	50.88	51.33	51.74	52.18	52.66	53.16	53.67	0.9%	
Developing Countries																										
Other South & Central America	4.44	4.67	4.69	4.80	4.94	5.12	5.29	5.48	5.66	5.85	6.04	6.24	6.45	6.65	6.87	7.08	7.31	7.53	7.77	8.01	8.27	8.53	8.81	9.09	3.1%	
Pacific Rim	7.48	7.47	7.74	8.06	8.23	8.47	8.73	8.99	9.25	9.52	9.79	10.07	10.36	10.65	10.95	11.25	11.56	11.87	12.19	12.52	12.86	13.22	13.59	13.97	2.9%	
OPEC	5.44	5.47	5.46	5.55	5.68	5.86	6.01	6.17	6.34	6.51	6.68	6.86	7.03	7.19	7.36	7.53	7.70	7.88	8.06	8.25	8.45	8.65	8.86	9.07	2.3%	
Other Developing Countries	3.69	3.71	3.75	3.78	3.86	3.97	4.07	4.17	4.28	4.38	4.49	4.60	4.71	4.82	4.93	5.04	5.16	5.28	5.40	5.53	5.67	5.81	5.95	6.10	2.3%	
Total Developing Countries	21.05	21.32	21.64	22.18	22.72	23.41	24.10	24.80	25.52	26.26	27.01	27.78	28.55	29.32	30.10	30.91	31.73	32.56	33.43	34.32	35.25	36.21	37.21	38.24	2.7%	
Eurasia																										
Former Soviet Union	4.26	4.23	4.15	4.25	4.23	4.26	4.30	4.36	4.42	4.49	4.56	4.63	4.71	4.79	4.87	4.96	5.04	5.13	5.23	5.32	5.43	5.53	5.64	5.75	1.4%	
Eastern Europe	1.41	1.47	1.53	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.65	1.66	1.67	1.67	1.68	1.69	1.70	1.70	1.71	1.72	1.73	1.74	1.75	1.76	0.8%	
China	3.79	3.91	4.10	4.25	4.36	4.51	4.67	4.85	5.03	5.20	5.39	5.58	5.77	5.96	6.16	6.37	6.59	6.81	7.04	7.28	7.53	7.79	8.06	8.35	3.5%	
Total Eurasia	9.46	9.62	9.78	10.10	10.18	10.38	10.60	10.84	11.09	11.34	11.60	11.87	12.14	12.43	12.72	13.02	13.33	13.64	13.98	14.32	14.68	15.06	15.45	15.86	2.3%	
Total Consumption	74.16	74.99	76.09	77.38	78.31	79.58	80.91	82.35	83.77	85.19	86.64	88.09	89.50	90.97	92.40	93.91	95.46	97.09	98.73	100.38	102.11	103.93	105.81	107.77	1.7%	

**Table 21. International Petroleum Supply and Disposition Summary (2 of 2)**  
**(Million Barrels per Day, Unless Otherwise Noted)**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1998-2020
Non-OPEC Production	44.04	44.31	44.45	45.54	46.46	46.60	46.90	47.25	47.53	48.41	49.38	50.39	51.46	52.59	53.31	54.05	54.83	55.64	56.45	56.92	57.35	57.77	58.15	58.54	1.3%
Net Eurasia Exports	1.12	1.08	0.97	0.77	0.88	0.79	0.66	0.53	0.39	0.65	0.92	1.22	1.54	1.87	1.99	2.12	2.25	2.38	2.51	2.38	2.23	2.06	1.88	1.69	2.1%
OPEC Market Share	0.41	0.42	0.42	0.41	0.40	0.41	0.42	0.42	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.44	0.44	0.45	0.46	0.4%

1/ Average refiner acquisition cost of imported crude oil.

2/ Includes production of crude oil (including lease condensates), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, alcohol, liquids produced from coal and other sources, and refinery gains.

3/ OECD Europe includes the unified Germany.

Bbl = Barrel.

OECD = Organization for Economic Cooperation and Development - Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and the United States (including territories).

Pacific Rim = Hong Kong, Malaysia, Philippines, Singapore, South Korea, Taiwan, and Thailand.

OPEC = Organization of Petroleum Exporting Countries - Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Eurasia = Albania, Bulgaria, China, Czech Republic, Hungary, Poland, Romania, Slovak Republic, the Former Soviet Union, and the Former Yugoslavia.

Note: Totals may not equal sum of components due to independent rounding. Data for 1997 and 1998 are model results and may differ slightly from official EIA data reports.

Sources: 1997 and 1998 data derived from: Energy Information Administration (EIA), Short-Term Energy Outlook, September 1999. Online.<http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep99.pdf> (October 12, 1999). Projections: EIA, AEO2000 National Energy Modeling System run HWOP2K.D100199A.